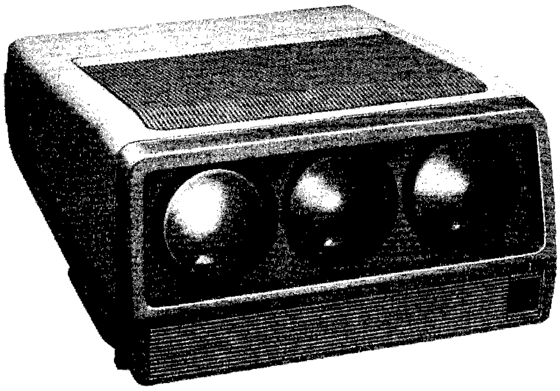
VPH-1252QM/Q
RM-1271

SERVICE MANUAL

VPH-1252QM
Chassis No. SCC-D13E-A
VPH-1252Q
Chassis No. SCC-D27E-A



SuperData

Note: The service manual for **RM-1271** has been issued separatly

MODELS OF THE SAME SERIES	
VPH-1252QM/Q	
VPH-1272QM/Q	

SPECIFICATIONS

Optical

Projection system	3 picture tubes, 3 lenses, Horizontal inline system
Picture tube	7-inch new high-brightness monochrome tubes, with coolant sealed
Projection lens	HACC (High-resolution Aspherical and Color Corrected) lenses F 1.12/140mm
Projected picture size	Factory-adjusted to 120 inches measured diagonally 70-300 inches measured diagonally adjustable by changing the parts
Light output	700 lm (white peak) 200 lm (all white)

General

Color system	PAL, SECAM, NTSC and NTSC$_{4.43}$ systems, switched automatically
Resolution	700 TV lines (VIDEO input) 1500x1200 pixels (RGB input at f$_H$: 46.7kHz, fv: 38Hz)
RGB inputs	Horizontal frequency 15kHz-61.5kHz Vertical frequency 38Hz-150Hz
Test signal	Cross-hair test pattern generator is incorporated.
Speaker	4x8cm (1 5/8x3 1/4 inches), 3W
Input	VIDEO IN Y/C: 4-pin mini DIN connector Y (luminance) signal: 1 Vp-p ±2dB, sync negative, 75 ohms terminated C (chrominance) signal: burst 0.286 Vp-p±2dB, 75 ohms terminated (NTSC) 0.3 Vp-p±2dB, 75 ohms terminated (PAL)

– Continued on next page –

MULTISCAN PROJECTOR

SONY®

	VIDEO: BNC connector Composite video input, 1 Vp-p ±2dB, sync negative, 75 ohms terminated. AUDIO IN phono jack 500 m Vrms, Impedance: more than 47 k ohms **RGB input** R: BNC connector Red input, 0.7 Vp-p ±2dB, 75 ohms terminated, positive G/G SYNC: BNC connector Green input, 0.7Vp-p ±2dB, 75 ohms terminated, positive Green with sync input, 1Vp-p ±2dB, 75 ohms terminated, positive B: BNC connector Blue input, 0.7Vp-p ±2dB, 75 ohms terminated, positive SYNC/HD: BNC connector Composite sync input, 0.3–8Vp-p, high impedance, positive/negative Horizontal sync input, 0.3–8Vp-p, high impedance, positive/negative VD: BNC connector Vertical sync input, 0.3–8Vp-p, high impedance, positive/negative Width: wider than horizontal period (1H) AUDIO IN L(MONO)/R: phone jacks REMOTE 1 connector: 14-pin (see "Signal assignment") REMOTE 2 connector: 9-pin (see "Signal assignment") CONTROL S IN: minijack, 5Vp-p
Outputs	VIDEO OUT: BNC connector Composite video output, 1Vp-p ±2dB, impedance 75 ohms, output video signal from the VIDEO IN connector CONTROL S OUT: minijack, 5Vp-p
Power requirements	120 V AC, 50/60Hz (VPH-1252Q) 220-240 V AC, 50/60Hz (VPH-1252QM)
Power consumption	520W (VPH-1252Q) 500W (VPH-1252QM)
Operating temperature	−10°C –+40°C (humidity: 10% –90%)
Storage temperature	−20°C –+60°C (humidity: 10% –90%)
Dimensions	Approx. 620x355x817mm (w/h/d) (24 1/2x14x32 1/4 inches)
Weight	63kg (141 lb 2oz)
Accessories supplied	Remote Commander RM-1271 (1) with 3 R6 (AA) batteries Remote Commander cable (1) AC power cord (1) Washer for optical axis adjustment (12 each for 4 sorts of thickness) CRT spacers (1set each for the size S and L) Spacer for rear projection (1 set each for the angles of optical axis 0° and 2°) Extension board (1)

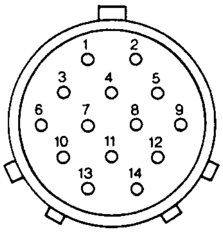
Accessories (not supplied)

Signal interface switcher	PC-1271 (VPH-1252Q) PC-1271M (VPH-1252QM)
Projector suspension support	PSS-1270, PSS-10
Screen	VPS-80FH (80" flat, manual screen) VPS-80FMJ (80" flat, automatic screen) VPS-100FH (100" flat, manual screen) VPS-100FMJ (100" flat, automatic screen) VPS-120FH (120" flat, manual screen) VPS-120FMJ (120" flat, automatic screen) VPS-72HG1 (72" curved) VPS-100HG1 (100" curved) VPS-700R, VPS-700R2, VPS-701R (70" rear projection)
CCQ BRS cables	
Interface board	IFB-11 (5BNC, Analogue) IFB-20 (9-pin, Analogue) IFB-1000 (Video, Y/C) IFB-30 (9-pin, Digital) IFB-1200 (3BNC, Analogue) IFB-1300 (3BNC, HD) IFB-101 (Index board)
Interface unit	IFU-1271

Signal assignment

REMOTE 1 connector (14-pin)

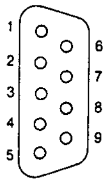
Pin No.	Signal
1	GND
2	HD/Composite Sync
3	SIRCS
4	NC
5	GND(SIRCS)
6	B/C
7	GND(B/C)
8	GND(G/Y)
9	G/Y
10	RGB/Video
11	R/Composite Video
12	Composite Video/YC
13	AUDIO
14	VD


1
2
3
4
5
6
7
8
9
10
11
12
13
14

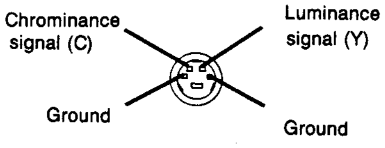
REMOTE 2 connector (D-sub 9-pin)

Pin No.	Signal
1	Frame Ground
2	$\overline{\text{Transit A}}$
3	Receive B
4	Receive Common
5	Spare
6	Transmit Common
7	Transmit B
8	$\overline{\text{Receive A}}$
9	Frame Ground

RS-422 format



Y/C connector (4-pin mini DIN)


Chrominance signal (C)
Luminance signal (Y)
Ground
Ground

• Note for when using this manual.

These following sections GENERAL, DISASSEMBLY, CIRCUIT DESCRIPTIONS, SET-UP ADJUSTMENTS and CIRCUIT ADJUSTMENTS are the same as VPH-1251QM (PART No. 9-978-196-01) and VPH-1251Q (PART No. 9-978-194-01) so refer to mentioned above service manual.

SAFETY CHECK-OUT
(US Model only)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shelds, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cord for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the B+ and HV to see they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
8. Check the metal trim, metallized" knobs, screws, and all other exposed metal parts for AC leakage.
   Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth gournd. If the retaining screw is to be used as your earth-groung, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60−100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)

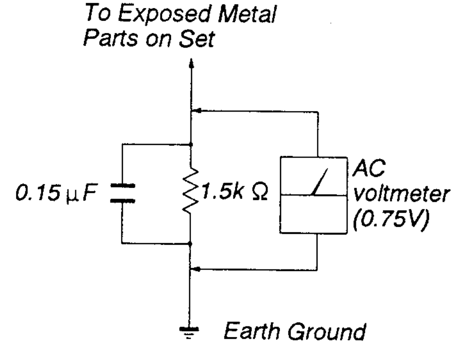


Fig. A. Using an AC voltmeter to check AC leakage

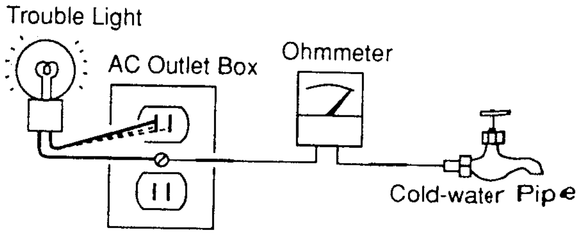


Fig. B. Checking for earth ground.

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SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÈS PAR UNE TRAME ET PAR UNE MARQUE ⚠ SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIES DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

SECTION 1

SAFETY RELATED ADJUSTMENT

When exchanging ◪ part check HV hold-down circuit, HV regulation circuit, LOW B protector circuit and beam current protector circuit.

⧓ R33, R34 [HV hold-down] PA board.

◪ IC2, Q7, D9, D12, C13, R20, R21, R22, R23, R24, R33, R34, R35, R36, R82, HV BLOCK, PA mount

⧓ R131, R132, [HV regulation] PA board

◪ IC1, IC7, IC8, IC9, IC10, IC11, IC12, IC13, R38, R39, R63, R64, R65, R66, R69, R72, R78, R80, R131, R132, X1, HV BLOCK, PA mount, PB mount

⧓ R29, R30, [LOW B protector] PA board

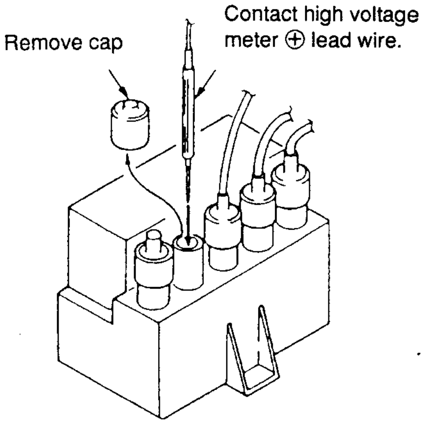
◪ IC1, IC3, IC5, Q8, D4, D5, D10, D11, R9, R10, R26, R28, R29, R30, R31, R88, R95, PA mount

⧓ R1, R4, [Beam current protector] PA board

◪ IC2, IC3, IC5, Q1, Q2, Q7, Q8, D4, D5, D9, R1, R2, R3, R4 R5, R6, R7, R8, R9, R10, R20, R21, R22, R23, R24, R43, R44, R45, R46, R47, R82, R88, R121, R122, R143, R144, R733 (DA board), PA mount, PB mount

⧓ R33,R34 : HV Hold-down

1. Confirm set power is turned OFF.
2. Connect high voltage meter ⊕ to HV filter vacant terminal and ⊖ to chassis earth.
3. Remove resistance mounted between PA board TP7–TP9. Connect variable resistor and set at 47KΩ.
4. Remove resistance mounted between PA board TP16–TP18.Connect variable resistor and set at 27KΩ.
5. Turn RV1 fully counterclockwise
6. Turn set power ON.
7. Input monoscope signal, and set RGB CUT OFF switch to ON.
8. Turn variable resistor between TP16–TP18 to change resistance value and adjust high voltage to around 34.0±0.3KV.
9. Turn variable resistor between TP7–TP9 to change resistance value, adjust high voltage to around 34.0±0.3KV, and confirm hold-down circuit operates and raster disappears.
10. Turn set power OFF.
11. Remove variable resistor between TP7–TP9. Measure the volume resistance value and solder on the same amount of resistance to R33, R34 (carbon, 1/4W).
12. Next, slightly raise volume resistance value between TP16–TP18.
13. Turn set power ON.
14. Turn variable resistor between TP16–TP18 again and raise high voltage. Confirm hold-down circuit operates at 34.0±0.3KV and raster disappears.
15. Next, adjust HV regulation.

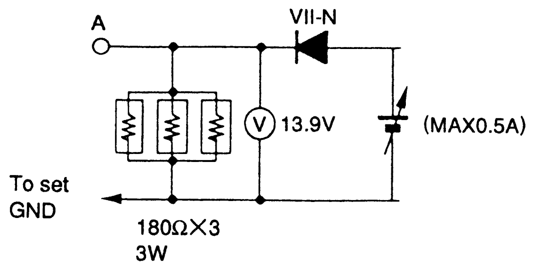


⧓ R131,R132 : HV reguration

1. Confirm set power is OFF.
2. Connect high voltage meter ⊕ to HV filter vacant terminal and ⊖ to chassis earth.
3. Set variable resistor between PA board TP16–TP18 to 27KΩ.
4. Turn set power ON.
5. Press CUT-OFF key and cut-off R. G. B.
6. Turn variable resistor between TP16–TP18 to change resistance value and adjust high voltage to around 33.0±0.3KV.
7. Turn set power OFF.
8. Remove variable resistance between TP16–TP18. Measure the volume resistance value and solder on the same amount of resistance to R131,R132 (carbon, 1/4W).
9. Turn set power ON.
10. Confirm high voltage meter reads 33.0±0.3KV.
11. Turn set power OFF and remove high voltage meter.

☒ R29,R30 : LOW B Protector

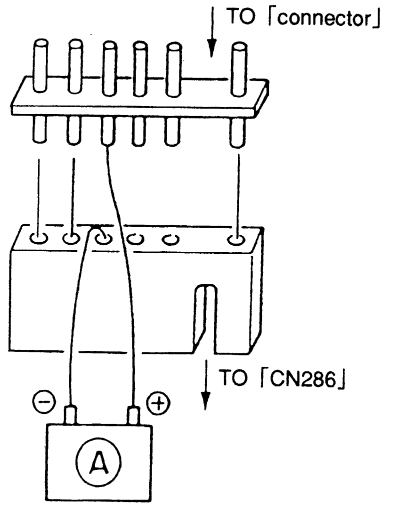
- Prepare jig circuit as shown in figure.
- Adjust until high voltage meter shows 13.9V.


A
VII-N
13.9V
(MAX0.5A)
To set GND
180Ω×3
3W

1. Turn set power ON.
2. Contact jig circuit A point to PA board TP6 (12V line) for 0.5–1 sec, and remove immediately. Confirm power turns OFF when doing so.
3. If power does not turn OFF, adjust R29, R30.

☒ R1,R4 : Beam Current Protector

1. Confirm set power is turned OFF.
2. Disconnect PA board connector CN286 and connect jig shown in figure.
3. Short circuit PA board Q1 emitter and collector.
4. Turn set power ON.
5. Input monoscope signal, send beam current by CONTR, BRT and G2VR, and confirm protector circuit operates at under 4700μA and raster is erased.
6. If protector circuit does not operate, adjust R4.
7. Remove jig short–circuiting Q1 emitter and collector.
8. Next, short–circuit Q2 emitter and collector.
9. Turn set power On.
10. Send beam current by CONTR, BRT and G2VR, and confirm protector operates at under 4700μA and raster is erased.
11. When protector does not operate, adjust R1.
12. Remove jig short–circuiting Q2 emitter and collector.


TO 「connector」
TO 「CN286」
⊖
⊕
A

To check without Using High Voltage Meter

☒ R33,R34 : HV Hold-doen

1. Use voltage dividing network shown in figure to calibrate detection until.

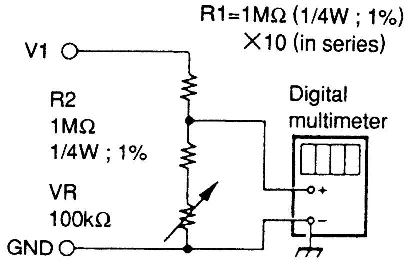
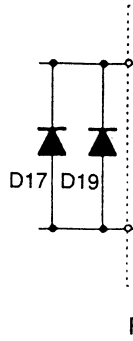
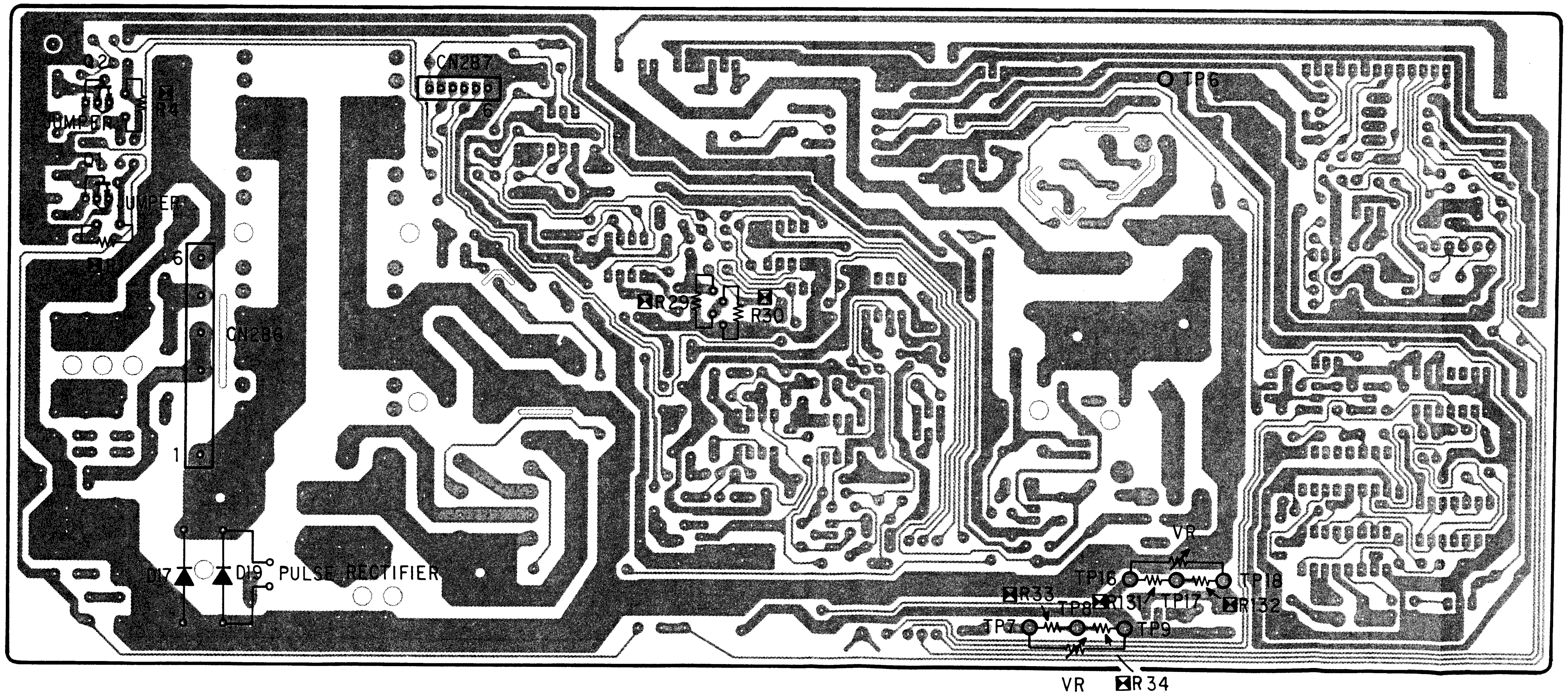

R1=1MΩ (1/4W ; 1%)
×10 (in series)
V1
R2
1MΩ
1/4W ; 1%
VR
100kΩ
GND
Digital multimeter
+
-

Fig. 1 : Voltage dividng network

2. Remove PA board connector (CN287) to hold down high voltage. Connect V1 to 100V line of set and read V1 voltage with digital multimeter. Next, adjust volume (VR) so that digital multimeter value is 1/10 of V1.
3. Connect pulse rectifier between Pa board D17 or D19 anode and cathode.



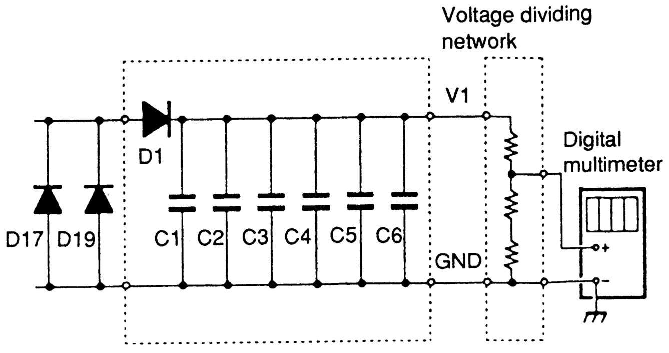
4. Confirm s
5. Confirm
connectec
6. Remove
connect v
7. Remove
volume ar
8. Turn RV1
Connect F
9. Turn set p
10. Input mc
maximum
11. Turn vari
digital mu
12. Turn var
hold–dow
multimete
13. Turn set p
14. Remove
resistance
R33, R34
15. Slightly ra
16. Turn set p
17. Turn volu
circuit ope
value is 9€
18. Next, adju


Q2
☒ R4
JUMPER
Q1
JUMPER
CN287
6
TP6
6
CN286
1
☒ R29
☒ R30
D17
D19
PULSE RECTIFIER
VR
TP16
TP18
☒ R33
TP8
☒ R131
TP17
☒ R132
TP7
TP9
VR
☒ R34

calibrate

own high
/1 voltage
R) so that

)19 anode



Pulse rectifier D1 : VIN-N
C1C6 : 20000P/1.6kV

4. Confirm set power is turned OFF.
5. Confirm pulse rectifier and voltage dividing network are connected.
6. Remove resistance mounted between PA board TP7–TP9, connect volume and set at 47KΩ.
7. Remove resistance mounted between TP16–TP18, connect volume and set at 27KΩ.
8. Turn RV1 fully counter clockwise.
   Connect PA board connector (CN287).
9. Turn set power ON.
10. Input monoscope signal, and set CONTR and BRT at maximum.
11. Turn variable resistor between TP16–TP18 and adjust until digital multimeter value is 96.5±0.5VDC.
12. Turn variable resistor between TP7–TP9, and confirm hold–down circuit operates and luster is erased when digital multimeter is 96.5±0.5VDC.
13. Turn set power OFF.
14. Remove volume between TP7–TP9. Measure the volume resistance value and solder on the same resistance volume to R33, R34 (carbon 1/4W).
15. Slightly raise volume resistance between TP16–TP18.
16. Turn set power ON.
17. Turn volume between TP16–TP18 and confirm hold–down circuit operates and raster is erased when digital multimeter value is 96.5±0.5VDC.
18. Next, adjust HV regulation.

⧗ R131,R132 : HV Regulation

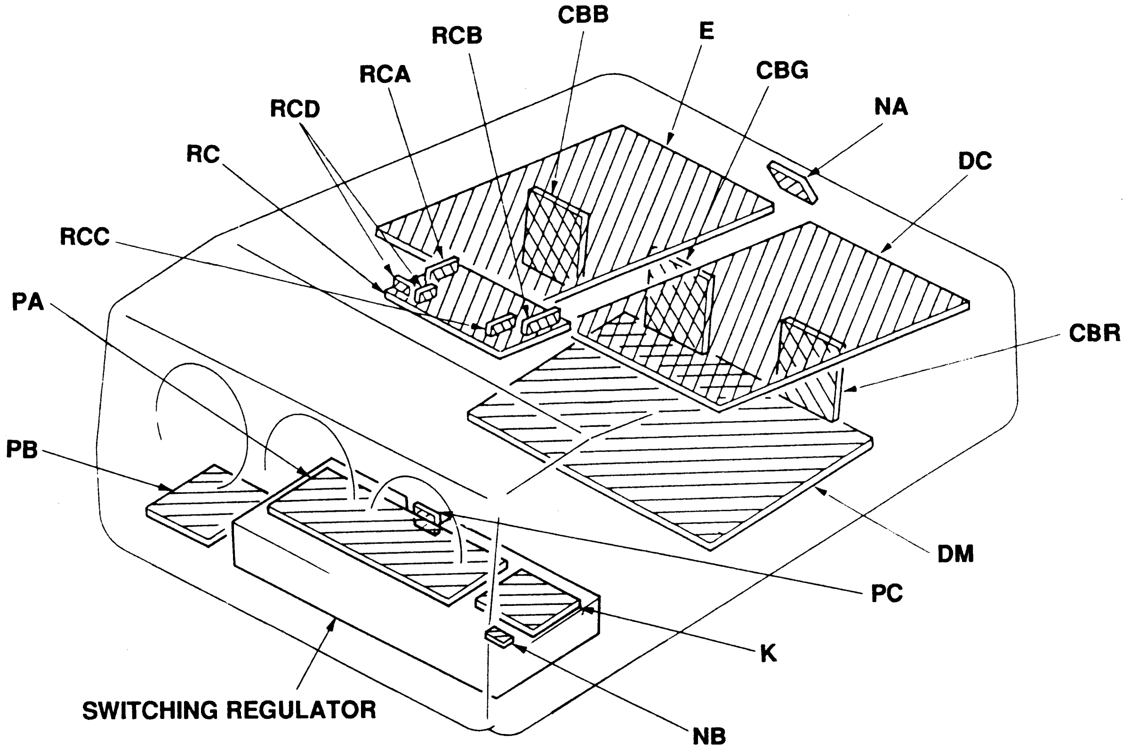
1. Confirm set power is OFF.
2. Set variable resistor between PA board TP16–TP18 at 27KΩ.
3. Turn set power ON.
4. Press CUT–OFF key to cut –off R, G, B.
5. Turn variable resistor between TP16–TP18 and change resistance value. Confirm digital multimeter value is 83.5±0.5VDC.
6. Turn set power OFF.
7. Remove TP16–TP18 variable resistor. Measure the volume resistance value and solder on the same resistance volume to R131, R132 (carbon 1/4W).
8. Turn set power ON.
9. Confirm digital multimeter value is 83.5±0.5VDC.
10. Turn set power OFF and remove pulse rectifier.

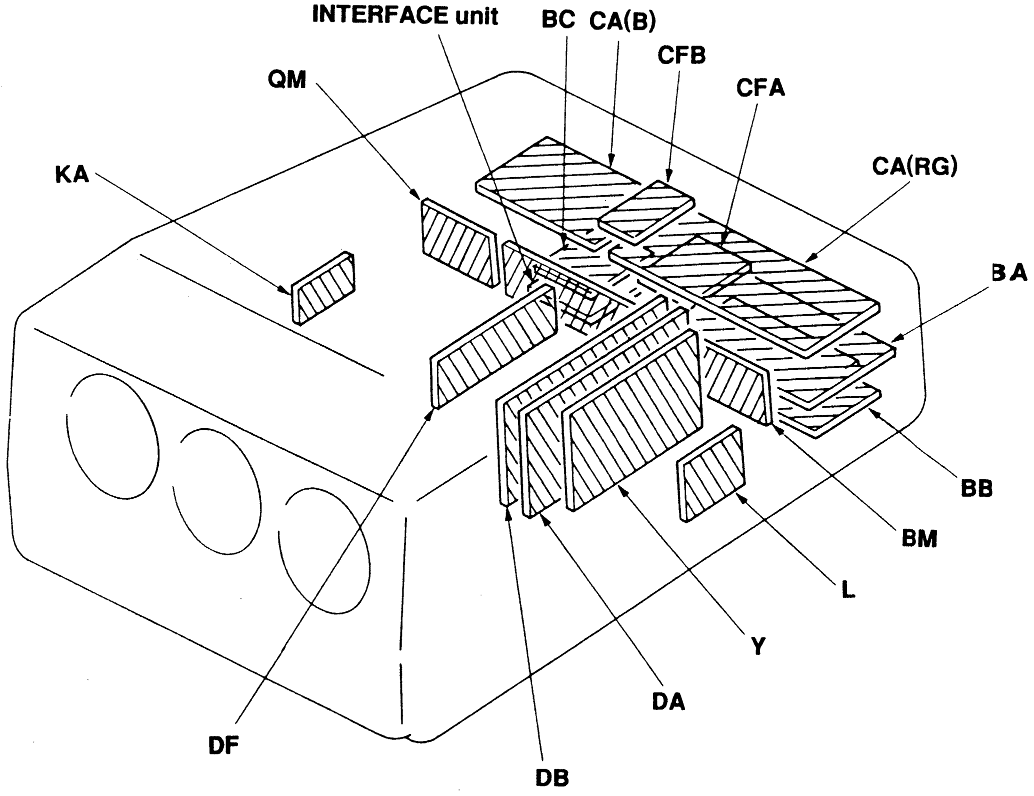
Confirmation when replacing Power Supply Block

Confirm that the voltage of +BMax, voltage is within the standard value when replacing Power Supply Block.

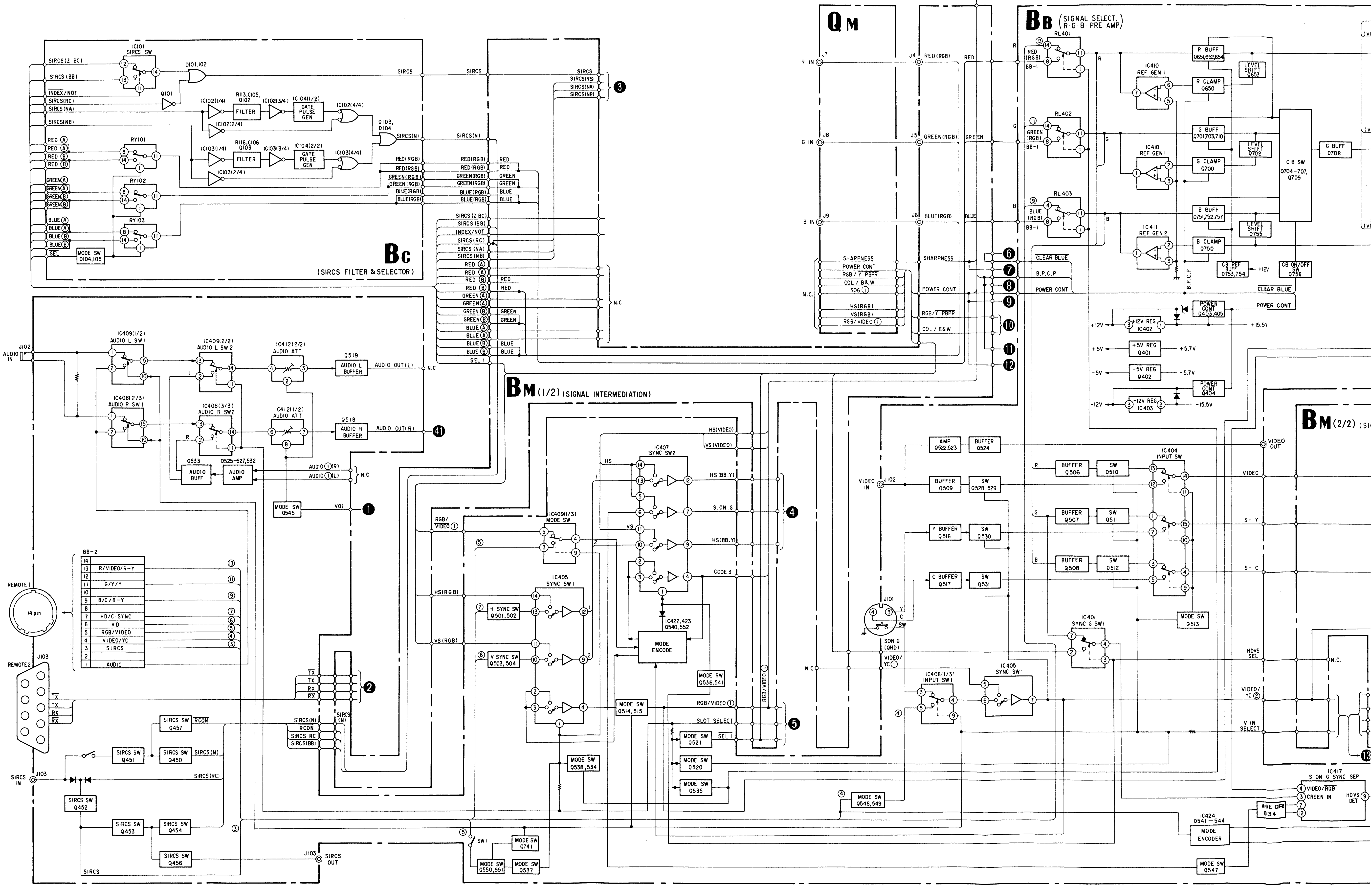
SECTION 2
DIAGRAMS

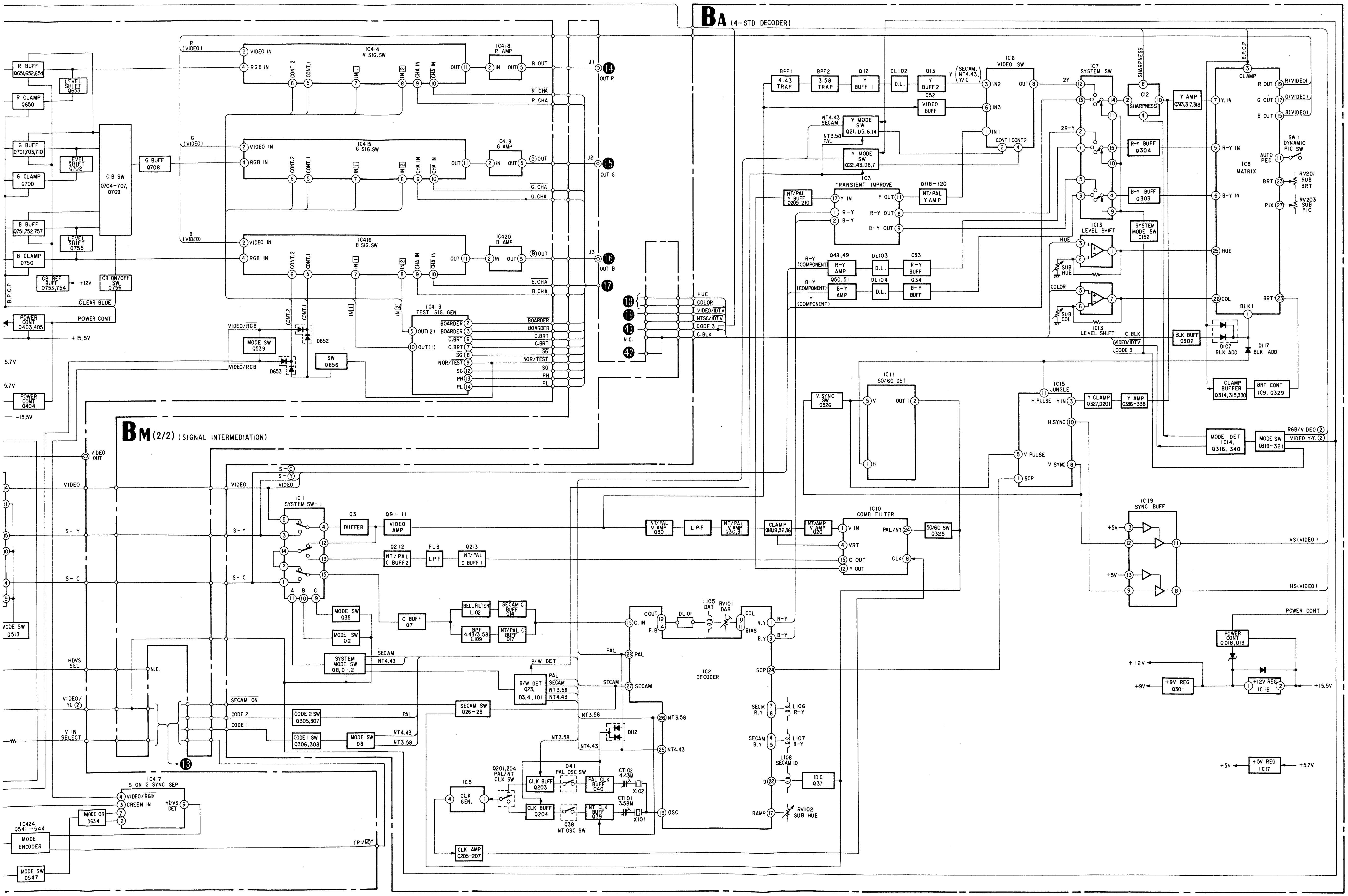
2-1. CIRCUIT BOARDS LOCATION

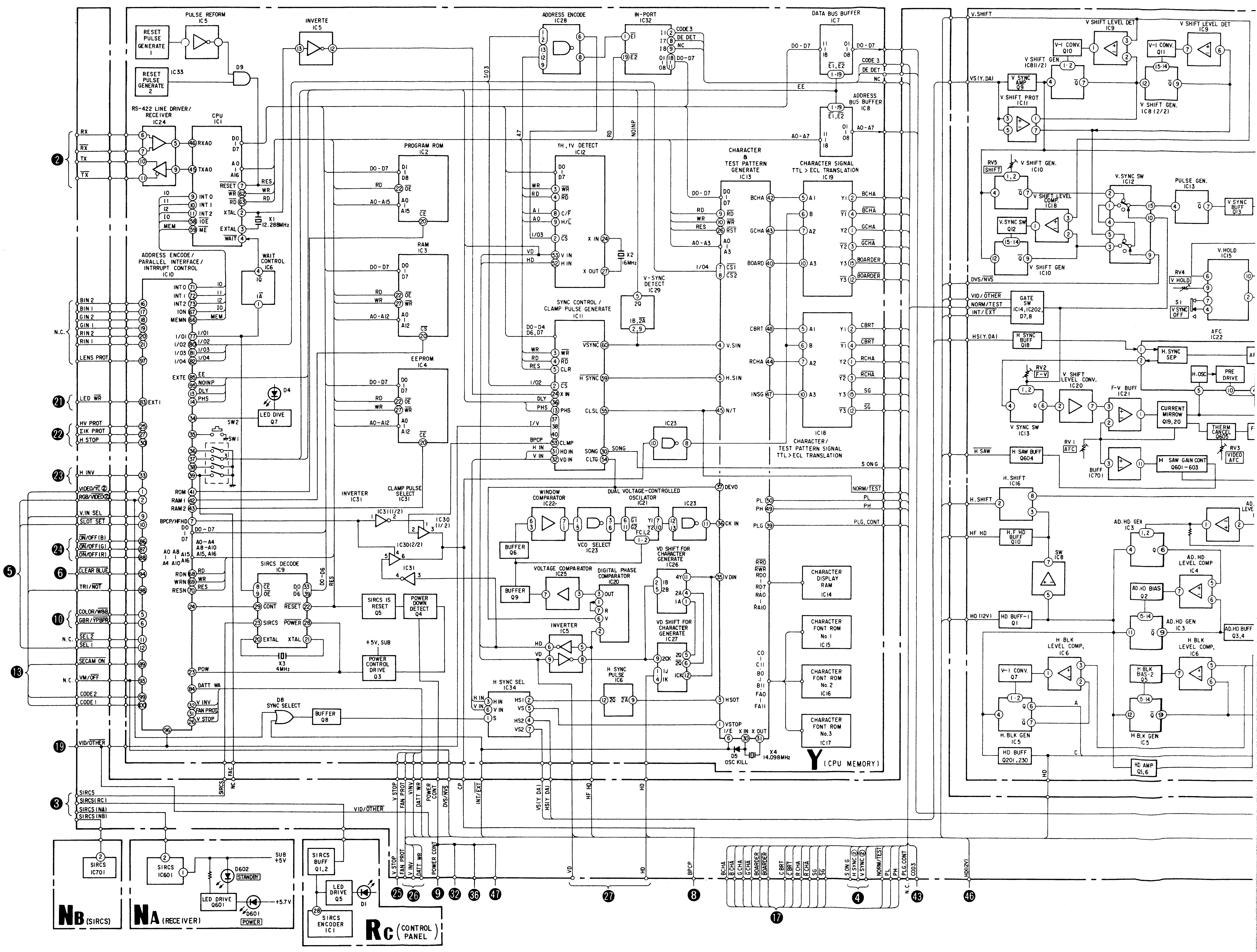




2-2. BLOCK DIAGRAMS


Bc (SIRCS FILTER & SELECTOR)
IC101 SIRCS SW
D101,102
Q101
IC102(1/4) IC102(2/4) IC102(3/4) IC102(4/4)
R113,C105, Q102
FILTER
IC104(1/2) GATE PULSE GEN
IC103(1/4) IC103(2/4) IC103(3/4) IC103(4/4)
R116,C106 Q103
IC104(2/2) GATE PULSE GEN
D103, D104
RY101 RY102 RY103
MODE SW Q104,105
SIRCS(Z BC) SIRCS(BB) INDEX/NOT SIRCS(RC) SIRCS(NA) SIRCS(NB)
RED(RGB) GREEN(RGB) BLUE(RGB) SEL 1
SIRCS SIRCS(RS) SIRCS(NA) SIRCS(NB)
N.C
IC409(1/2) AUDIO L SW1
IC409(2/2) AUDIO L SW2
IC412(2/2) AUDIO ATT
Q519 AUDIO L BUFFER
AUDIO OUT(L)
IC408(2/3) AUDIO R SW1
IC408(3/3) AUDIO R SW2
IC412(1/2) AUDIO ATT
Q518 AUDIO R BUFFER
AUDIO OUT(R)
J102 AUDIO IN
Q533 AUDIO BUFF
Q525-527,532 AUDIO AMP
AUDIO ①(R) AUDIO ①(L)
MODE SW Q545
VOL
REMOTE 1
14 pin
BB-2
14
13 R/VIDEO/R-Y
12
11 G/Y/Y
10
9 B/C/B-Y
8
7 HD/C SYNC
6 VD
5 RGB/VIDEO
4 VIDEO/YC
3 SIRCS
2
1 AUDIO
REMOTE 2 J103
TX RX
SIRCS SW Q457 RCON
SIRCS SW Q451
SIRCS SW Q450
SIRCS(IN)
SIRCS(RC)
SIRCS IN J103
SIRCS SW Q452
SIRCS SW Q453
SIRCS SW Q454
SIRCS SW Q456
J103 SIRCS OUT
SIRCS
SIRCS(IN) RCON SIRCS RC SIRCS(BB)
BM(1/2) (SIGNAL INTERMEDIATION)
RGB/VIDEO①
HS(RGB)
VS(RGB)
IC409(1/3) MODE SW
IC405 SYNC SW1
H SYNC SW Q501,502
V SYNC SW Q503,504
IC407 SYNC SW2
HS VS
HS(VIDEO) VS(VIDEO)
HS(BB.Y) S.ON.G HS(BB.Y) CODE 3
IC422,423 Q540,552
MODE ENCODE
MODE SW Q536,541
MODE SW Q514,515
RGB/VIDEO①
SLOT SELECT
MODE SW Q521 SEL 1
MODE SW Q520
MODE SW Q535
MODE SW Q538,534
SW1
MODE SW Q741
MODE SW Q550,551
MODE SW Q537
QM
R IN J7
G IN J8
B IN J9
J4 RED(RGB)
J5 GREEN(RGB)
J6 BLUE(RGB)
SHARPNESS
POWER CONT
RGB/Y PBPR
COL / B&W
SOG①
HS(RGB)
VS(RGB)
RGB/VIDEO①
N.C.
VIDEO IN J102
J101 Y C SW
SON G (QHD)
VIDEO/YC①
BB (SIGNAL SELECT. R·G·B PRE AMP)
RL401 RL402 RL403
RED (RGB) BB-1
GREEN (RGB) BB-1
BLUE (RGB) BB-1
R BUFF Q651,652,654
LEVEL SHIFT Q653
IC410 REF GEN 1
R CLAMP Q650
G BUFF Q701,703,710
LEVEL SHIFT Q702
G CLAMP Q700
IC411 REF GEN 2
B BUFF Q751,752,757
LEVEL SHIFT Q755
B CLAMP Q750
C B SW Q704-707, Q709
G BUFF Q708
CB REF BUFF Q753,754
CB ON/OFF SW Q756
CLEAR BLUE
B.P.C.P
POWER CONT
POWER CONT Q403,405
+12V REG IC402
+5V REG Q401
-5V REG Q402
POWER CONT Q404
-12V REG IC403
+12V +15.5V +5V +5.7V -5V -5.7V -12V -15.5V
AMP Q522,523
BUFFER Q524
VIDEO OUT
BUFFER Q509
SW Q528,529
BUFFER Q506 SW Q510
BUFFER Q507 SW Q511
Y BUFFER Q516 SW Q530
BUFFER Q508 SW Q512
C BUFFER Q517 SW Q531
IC404 INPUT SW
MODE SW Q513
VIDEO S-Y S-C
IC401 SYNC G SW1
IC408(1/3) INPUT SW1
IC405 SYNC SW1
MODE SW Q548,549
BM(2/2)
HDVS SEL
N.C.
VIDEO/YC②
V IN SELECT
IC417 S ON G SYNC SEP
VIDEO/RGB
GREEN IN
HDVS DET
MODE SW Q534
IC424 Q541-544 MODE ENCODER
MODE SW Q547


BA (4-STD DECODER)
BM (2/2) (SIGNAL INTERMEDIATION)
R BUFF Q651,652,654
LEVEL SHIFT Q653
R CLAMP Q650
G BUFF Q701,703,710
LEVEL SHIFT Q702
G CLAMP Q700
B BUFF Q751,752,757
LEVEL SHIFT Q755
B CLAMP Q750
C B SW Q704-707, Q709
G BUFF Q708
CB REF BUFF Q753,754
CB ON/OFF SW Q756
CLEAR BLUE
POWER CONT Q403,405
POWER CONT Q404
+15.5V
-15.5V
B.P.C.P
IC414 R SIG.SW
IC415 G SIG.SW
IC416 B SIG.SW
VIDEO IN
RGB IN
CONT.2
CONT.1
OUT
IC418 R AMP
IC419 G AMP
IC420 B AMP
R OUT
G OUT
B OUT
R.CHA
G.CHA
B.CHA
J1
J2
J3
OUT R
OUT G
OUT B
R (VIDEO)
G (VIDEO)
B (VIDEO)
IC413 TEST SIG. GEN
BOARDER
C.BRT
SG
NOR/TEST
PH
PL
VIDEO/RGB
MODE SW Q539
D652
D653
SW Q656
HUC
COLOR
VIDEO/IDTV
NTSC/IDTV
CODE 3
C.BLK
N.C.
VIDEO OUT
VIDEO
S-Y
S-C
HDVS SEL
VIDEO/YC
V IN SELECT
IC1 SYSTEM SW-1
Q3 BUFFER
Q9-11 VIDEO AMP
Q212 NT/PAL C BUFF2
FL3 LPF
Q213 NT/PAL C BUFF1
MODE SW Q35
MODE SW Q2
C BUFF Q7
BELL FILTER L102
SECAM C BUFF Q14
BPF 4.43/3.58 L109
NT/PAL C BUFF Q17
SYSTEM MODE SW Q8, D1, 2
SECAM
NT4.43
B/W DET Q23, D3,4,101
PAL
NT3.58
SECAM ON
CODE 2
CODE 1
CODE 2 SW Q305,307
CODE 1 SW Q306,308
MODE SW D8
SECAM SW Q26-28
IC417 S ON G SYNC SEP
VIDEO/RGB
SCREEN IN
HDVS DET
MODE OR D634
IC424 Q541-544 MODE ENCODER
MODE SW Q547
TRI/NOT
IC5 CLK GEN.
Q201,204 PAL/NT CLK SW
CLK BUFF Q203
CLK BUFF Q204
Q41 PAL OSC SW
Q38 NT OSC SW
PAL CLK BUFF Q40
NT CLK BUFF Q39
CT102 4.43M X102
CT101 3.58M X101
CLK AMP Q205-207
D112
IC2 DECODER
C.IN
COUT
F.B
DL101
L105 DAT
RV101 DAR
COL
BIAS
R.Y
B.Y
R-Y
B-Y
SCP
OSC
SECM R.Y
SECAM B.Y
L106 R-Y
L107 B-Y
L108 SECAM ID
ID
IDC Q37
RAMP
RV102 SUB HUE
BPF1 4.43 TRAP
BPF2 3.58 TRAP
Q12 Y BUFF 1
DL102 D.L.
Q13 Y BUFF 2
Q52 VIDEO BUFF
(SECAM, NT4.43, Y/C)
IC6 VIDEO SW
IN1
IN2
IN3
CONT1 CONT2
NT4.43 SECAM
NT3.58 PAL
Y MODE SW Q21, D5,6,14
Y MODE SW Q22,43,D6,7
IC3 TRANSIENT IMPROVE
NT/PAL Y BUFF Q209,210
Y IN
Y OUT
R-Y OUT
B-Y OUT
Q118-120 NT/PAL Y AMP
R-Y (COMPONENT)
B-Y (COMPONENT)
Y (COMPONENT)
Q48,49 R-Y AMP
Q50,51 B-Y AMP
DL103 D.L.
DL104 D.L.
Q33 R-Y BUFF
Q34 B-Y BUFF
2Y
2R-Y
IC7 SYSTEM SW
SHARPNESS
IC12 SHARPNESS
Y AMP Q313,317,318
R-Y BUFF Q304
B-Y BUFF Q303
SYSTEM MODE SW Q152
IC13 LEVEL SHIFT
HUE
SUB HUE
COLOR
SUB COL
BLK BUFF Q302
VIDEO/IDTV
CODE 3
D107 BLK ADD
D117 BLK ADD
IC8 MATRIX
CLAMP
R OUT
G OUT
B OUT
R (VIDEO)
G (VIDEO)
B (VIDEO)
SW1 DYNAMIC PIC SW
AUTO PED
BRT
PIX
RV201 SUB BRT
RV203 SUB PIC
BLK1
CLAMP BUFFER Q314,315,330
BRT CONT IC9, Q329
IC11 50/60 DET
V.SYNC SW Q326
IC15 JUNGLE
H.PULSE
H.SYNC
V PULSE
V SYNC
Y CLAMP Q327,D201
Y AMP Q336-338
MODE DET IC14, Q316, 340
MODE SW Q319-321
RGB/VIDEO
VIDEO Y/C
NT/PAL V AMP Q30
L.P.F
NT/PAL V AMP Q30,31
CLAMP Q18,19,32,36
NT/AMP V AMP Q20
IC10 COMB FILTER
V IN
VRT
C OUT
Y OUT
PAL/NT
CLK
50/60 SW Q325
IC19 SYNC BUFF
+5V
VS (VIDEO)
HS (VIDEO)
POWER CONT
POWER CONT Q018,019
+12V
+9V
+9V REG Q301
+12V REG IC16
+15.5V
+5V REG IC17
+5.7V
5.7V


PULSE REFORM IC5
RESET PULSE GENERATE 1
RESET PULSE GENERATE 2
IC33
D9
INVERTE IC5
ADDRESS ENCODE IC28
IN-PORT IC32
DATA BUS BUFFER IC7
ADDRESS BUS BUFFER IC8
RS-422 LINE DRIVER/RECEIVER IC24
CPU IC1
RXA0
TXA0
RESET
WR
RD
XTAL
EXTAL
WAIT
X1 12.288MHz
PROGRAM ROM IC2
RAM IC3
EEPROM IC4
fH, fV DETECT IC12
X2 16MHz
V-SYNC DETECT IC29
SYNC CONTROL / CLAMP PULSE GENERATE IC11
CHARACTER & TEST PATTERN GENERATE IC13
CHARACTER SIGNAL TTL > ECL TRANSLATION IC19
IC18 CHARACTER/TEST PATTERN SIGNAL TTL > ECL TRANSLATION
BCHA
GCHA
BOARD
CBRT
RCHA
INSG
ADDRESS ENCODE/PARALLEL INTERFACE/INTRRUPT CONTROL IC10
WAIT CONTROL IC6
LED DIVE Q7
D4
SW2
SW1
RX
TX
BIN 2
BIN 1
GIN 2
GIN 1
RIN 2
RIN 1
LENS PROT
N.C.
LED WR
HV PROT
ΣIK PROT
H STOP
H INV
VIDEO/YC
RGB/VIDEO
V.IN SEL
SLOT SET
ON/OFF(B)
ON/OFF(G)
ON/OFF(R)
CLEAR BLUE
TRI/NOT
COLOR/WBB
GBR/YPBPR
SEL 2
SEL 1
SECAM ON
VM/OFF
CODE 2
CODE 1
VID/OTHER
SIRCS
SIRCS(RC)
SIRCS(NA)
SIRCS(NB)
INVERTER IC31
CLAMP PULSE SELECT IC31
IC30
SIRCS DECODE IC9
X3 4MHz
SIRCS IS RESET Q5
POWER DOWN DETECT Q4
+5V, SUB
POWER CONTROL DRIVE Q3
D8 SYNC SELECT
BUFFER Q8
IC23
WINDOW COMPARATOR IC22
DUAL VOLTAGE-CONTROLLED OSCILLATOR IC21
VCO SELECT IC23
BUFFER Q6
BUFFER Q9
VOLTAGE COMPARATOR IC25
DIGITAL PHASE COMPARATOR IC20
INVERTER IC5
VD SHIFT FOR CHARACTER GENERATE IC26
VD SHIFT FOR CHARACTER GENERATE IC27
H SYNC PULSE IC6
H SYNC SEL IC34
CHARACTER DISPLAY RAM IC14
CHARACTER FONT ROM No.1 IC15
CHARACTER FONT ROM No.2 IC16
CHARACTER FONT ROM No.3 IC17
D5 OSC KILL
X4 14.098MHz
Y (CPU MEMORY)
SIRCS IC701
NB (SIRCS)
SIRCS IC601
D602 STANDBY
LED DRIVE Q601
D601 POWER
+5.7V
SUB +5V
NA (RECEIVER)
SIRCS BUFF Q1,2
LED DRIVE Q5
D1
SIRCS ENCODER IC1
RC (CONTROL PANEL)
V STOP
FAN PROT
V INV
DATT WR
POWER CONT
DVS/NVS
CP
INT/EXT
VS(Y.DA)
HS(Y.DA)
HF HD
HD
BPCP
S.ONG
H.SYNC
NORM/TEST
PL
PH
PLG.CONT
CODE3
HD(12V)
V.SHIFT
V SHIFT LEVEL DET IC9
V-I CONV. Q10
V-I CONV. Q11
V SHIFT GEN. IC8(1/2)
V SHIFT GEN. IC8(2/2)
V SYNC AMP Q9
V SHIFT PROT IC11
RV5 SHIFT
V SHIFT GEN. IC10
V SHIFT LEVEL COMP IC18
V.SYNC SW Q12
V.SYNC SW IC12
PULSE GEN. IC13
V SYNC BUFF Q13
V.HOLD IC15
RV4 V HOLD
S1 V SYNC OFF
GATE SW IC14, IC202, D7,8
H SYNC BUFF Q18
H. SYNC SEP
AFC IC22
H.OSC
PRE DRIVE
RV2 F-V
V SHIFT LEVEL CONV. IC20
F-V BUFF IC21
CURRENT MIRROR Q19,20
THERM CANCEL Q605
V SYNC SW IC13
RV1 AFC
BUFF IC701
H SAW
H SAW BUFF Q604
H SAW GAIN CONT Q601-603
RV3 VIDEO AFC
H. SHIFT IC16
H.F HD BUFF Q10
SW IC8
AD.HD GEN IC3
AD.HD LEVEL COMP IC4
AD.HD BIAS Q2
AD.HD GEN IC3
AD.HD BUFF Q3,4
HD BUFF-I Q1
H BLK LEVEL COMP. IC6
V-I CONV. Q7
H BLK BIAS-2 Q5
H.BLK GEN IC5
H BLK GEN IC5
HD BUFF Q201,230
HD AMP Q5,6
②
③
④
⑤
⑥
⑧
⑨
⑩
⑬
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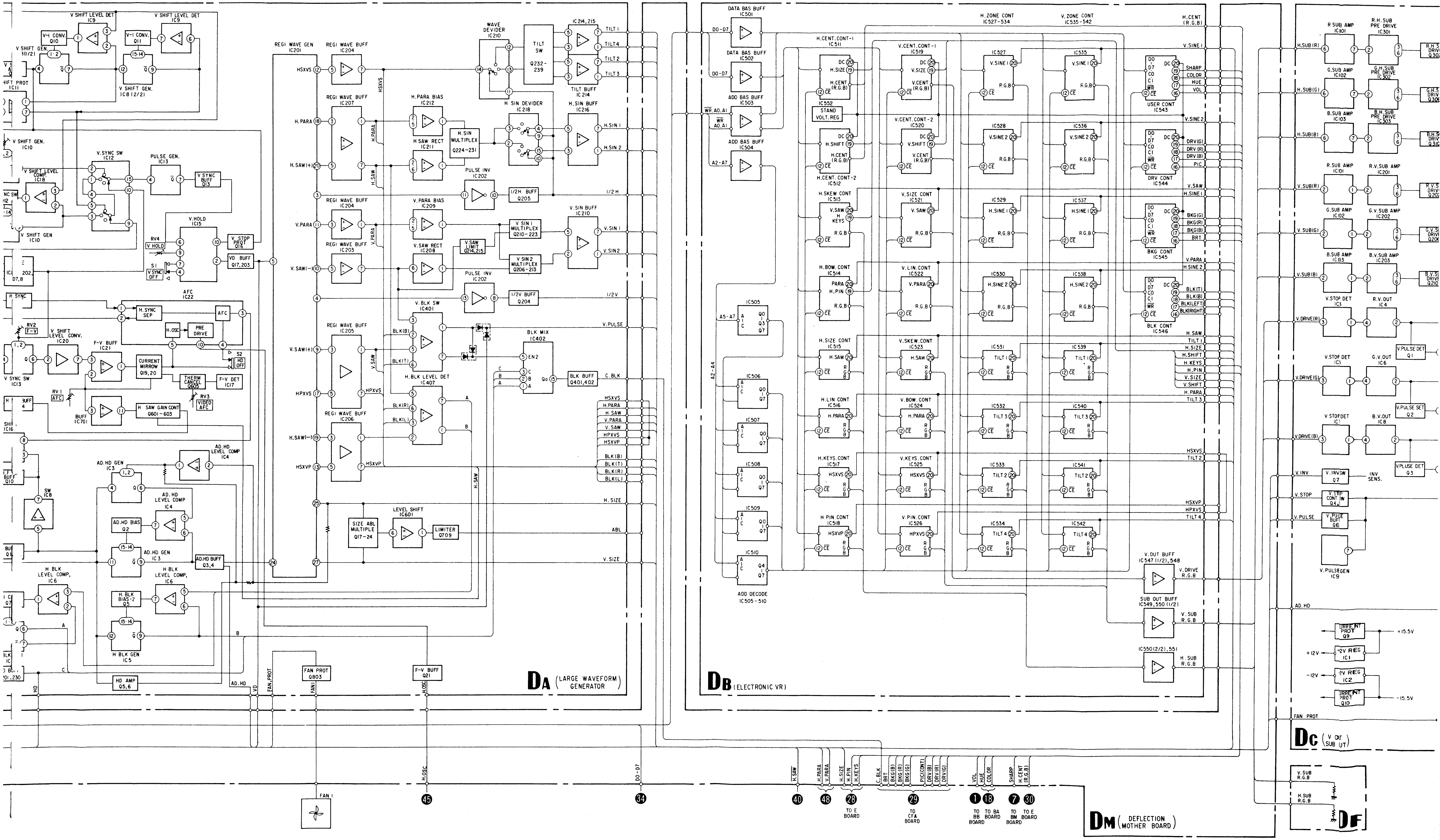
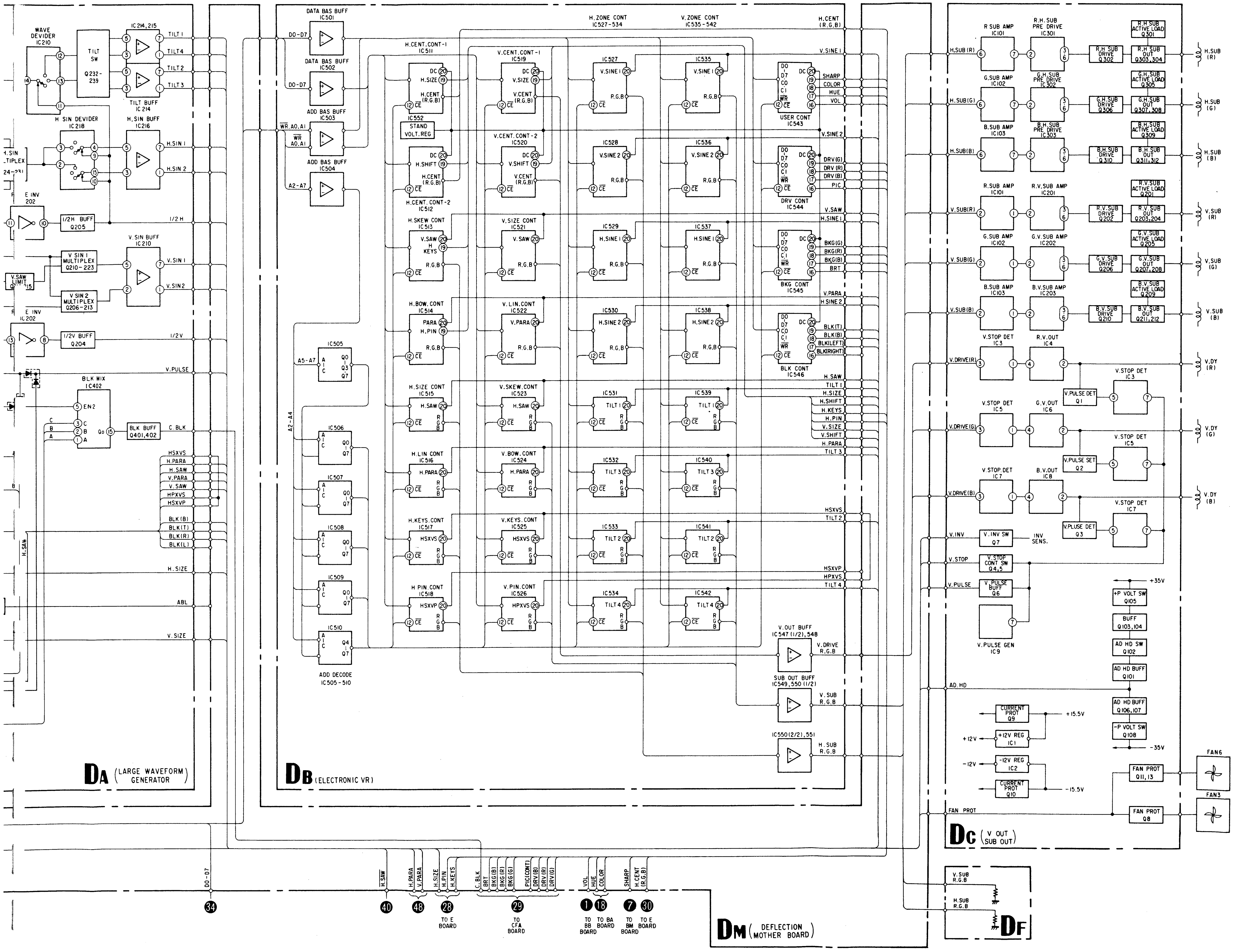
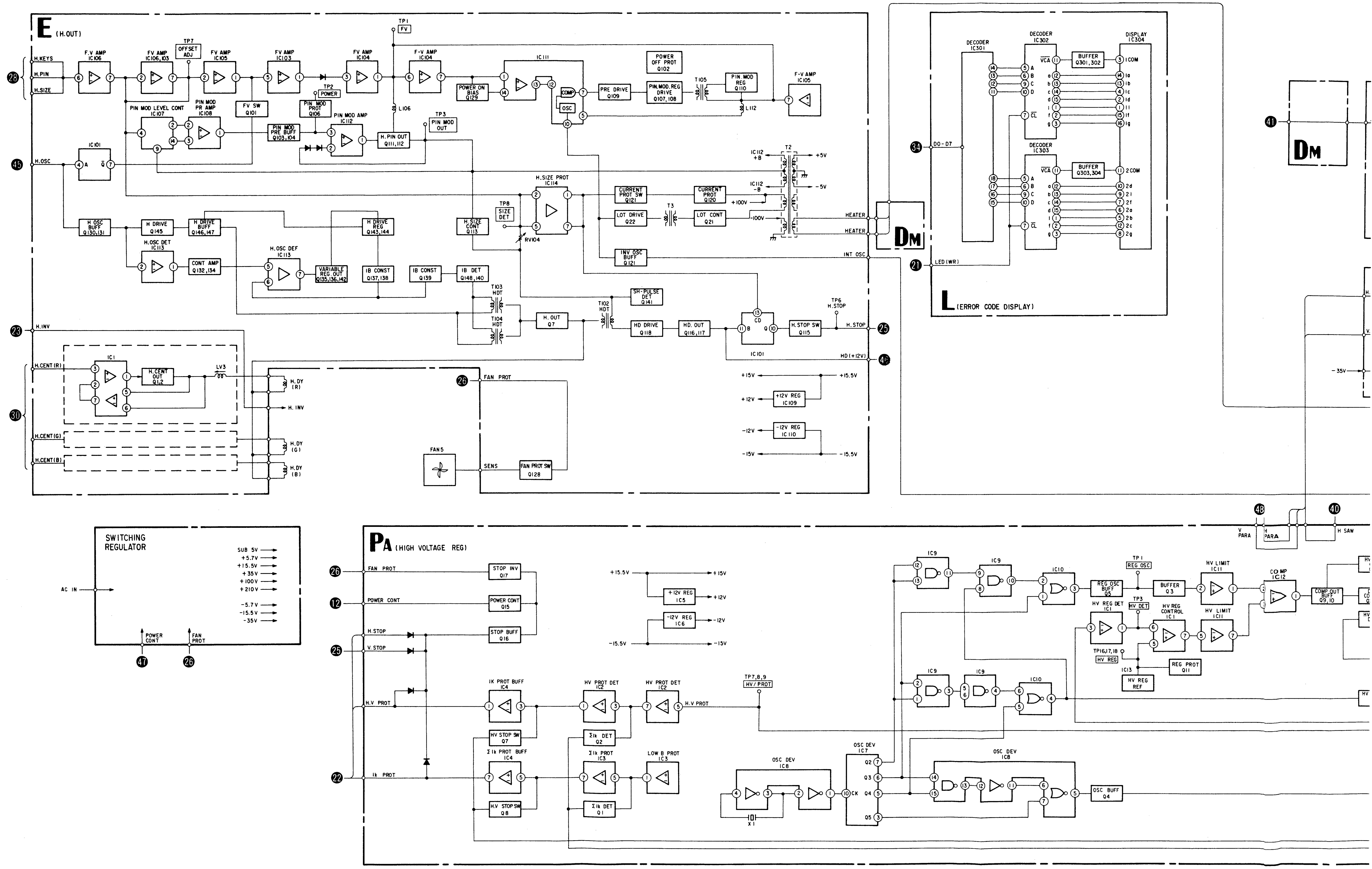
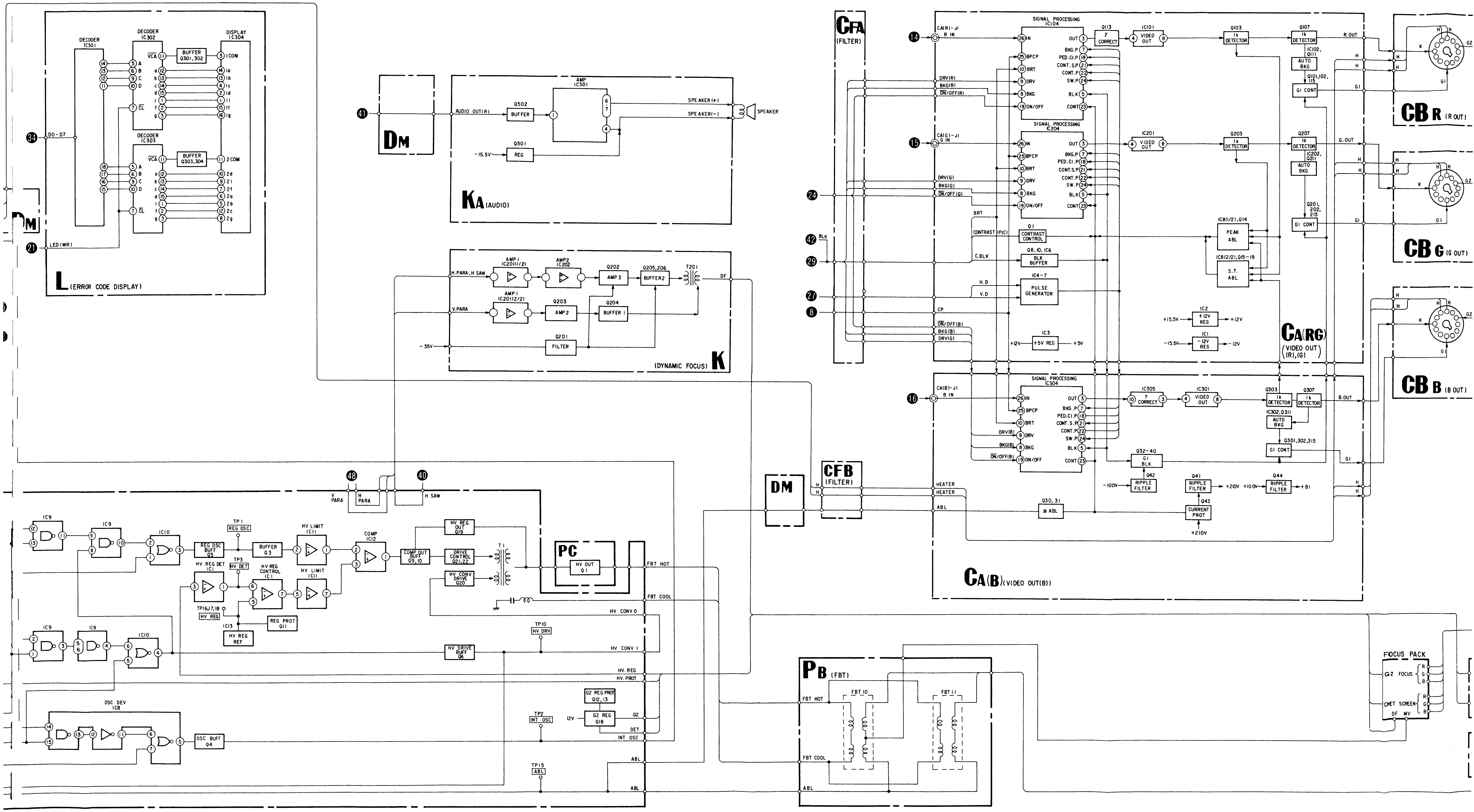
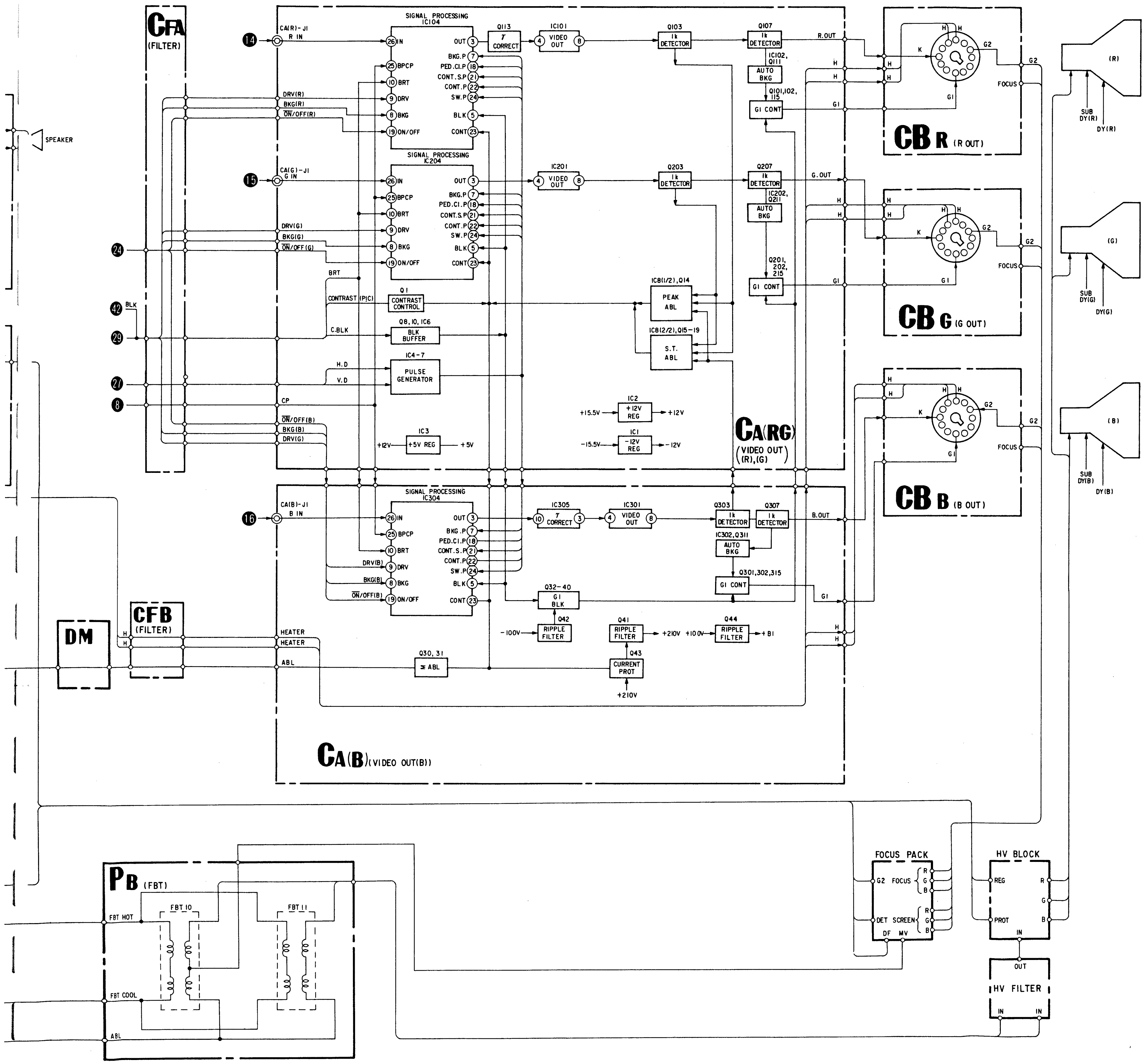

V SHIFT LEVEL DET IC9
V-I CONV. Q10
V-I CONV. Q11
V SHIFT GEN. IC8 (2/2)
V SHIFT GEN. IC10
V SYNC SW IC12
PULSE GEN. IC13
V SYNC BUFF Q13
V SHIFT LEVEL COMP. IC18
V.HOLD IC15
V STOP PROT Q16
VD BUFF Q17,203
AFC IC22
H.SYNC SEP
PRE DRIVE
V SHIFT LEVEL CONV. IC20
F-V BUFF IC21
CURRENT MIRROW Q19,20
THERM CANCEL Q605
F-V DET IC17
H SAW GAIN CONT Q601-603
VIDEO AFC
BUFF IC701
AD.HD GEN IC3
AD.HD LEVEL COMP IC4
AD.HD BIAS Q2
AD.HD BUFF Q3,4
H BLK LEVEL COMP. IC6
H.BLK BIAS-2 Q5
H BLK GEN IC5
HD AMP Q5,6
REGI WAVE GEN IC201
REGI WAVE BUFF IC204
REGI WAVE BUFF IC207
REGI WAVE BUFF IC203
REGI WAVE BUFF IC205
REGI WAVE BUFF IC206
H.PARA BIAS IC212
H.SAW RECT IC211
H.SIN MULTIPLEX Q224-231
WAVE DEVIDER IC210
TILT SW Q232-239
TILT BUFF IC214
H SIN DEVIDER IC218
H.SIN BUFF IC216
PULSE INV IC202
1/2H BUFF Q205
V.PARA BIAS IC209
V.SAW RECT IC208
V SIN 1 MULTIPLEX Q210-223
V SIN 2 MULTIPLEX Q206-213
V.SAW LIMIT Q214,215
V.SIN BUFF IC210
1/2V BUFF Q204
V.BLK SW IC401
H.BLK LEVEL DET IC407
BLK MIX IC402
BLK BUFF Q401,402
SIZE ABL MULTIPLE Q17-24
LEVEL SHIFT IC601
LIMITER Q709
FAN PROT Q803
F-V BUFF Q21
FAN 1
DA (LARGE WAVEFORM GENERATOR)
DATA BAS BUFF IC501
DATA BAS BUFF IC502
ADD BAS BUFF IC503
ADD BAS BUFF IC504
IC552 STAND VOLT.REG
ADD DECODE IC505-510
H.CENT.CONT-1 IC511
H.CENT.CONT-2 IC512
H.SKEW CONT IC513
H.BOW.CONT IC514
H.SIZE CONT IC515
H.LIN CONT IC516
H.KEYS.CONT IC517
H PIN CONT IC518
V.CENT.CONT-1 IC519
V.CENT.CONT-2 IC520
V.SIZE CONT IC521
V.LIN.CONT IC522
V.SKEW.CONT IC523
V.BOW.CONT IC524
V.KEYS.CONT IC525
V.PIN.CONT IC526
H.ZONE CONT IC527-534
V.ZONE CONT IC535-542
USER CONT IC543
DRV CONT IC544
BKG CONT IC545
BLK CONT IC546
V.OUT BUFF IC547 (1/2),548
SUB OUT BUFF IC549,550 (1/2)
IC550 (2/2),551
DB (ELECTRONIC VR)
R SUB AMP IC101
G.SUB AMP IC102
B.SUB AMP IC103
R.H.SUB PRE DRIVE IC301
G.H.SUB PRE DRIVE IC302
B.H.SUB PRE DRIVE IC303
R.V.SUB AMP IC201
G.V.SUB AMP IC202
B.V.SUB AMP IC203
V.STOP DET IC3
R.V.OUT IC4
G.V.OUT IC6
B.V.OUT IC8
V.PULSE DET Q1
V.PULSE SET Q2
V.PLUSE DET Q3
V.INVSW Q7
INV SENS.
V.STP CONT SW Q4
V.PULE BUFF Q6
V.PULSEGEN IC9
CURRENT PROT Q9
12V REG IC1
12V REG IC2
CURRENT PROT Q10
+15.5V
+12V
-12V
-15.5V
DC (V OUT SUB OUT)
DF
DM (DEFLECTION MOTHER BOARD)
45
34
40
48
28 TO E BOARD
29 TO CFA BOARD
1 TO BB BOARD
18 TO BA BOARD
7 TO BB BOARD
30 TO E BOARD

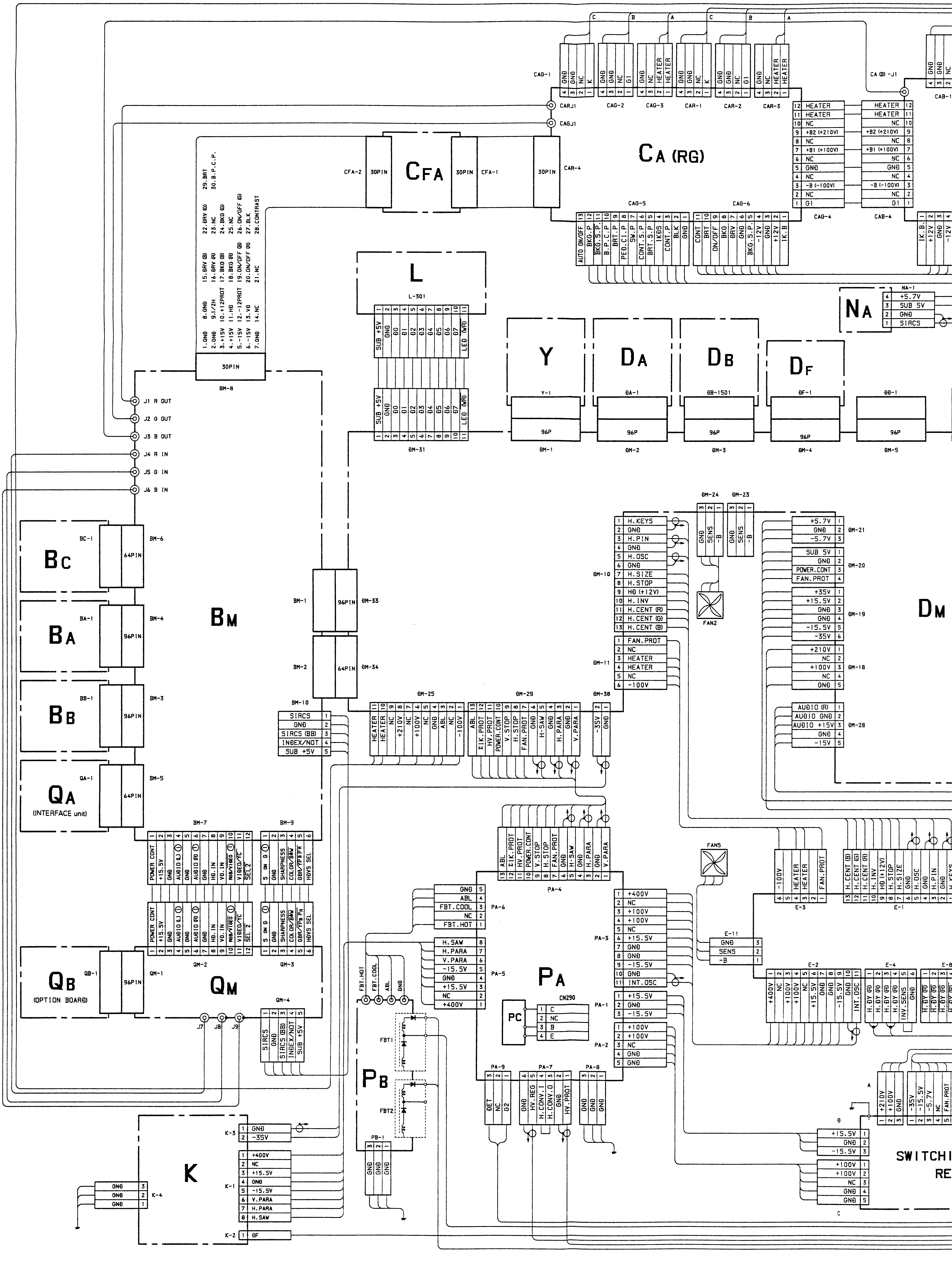

WAVE DEVIDER IC210
TILT SW Q232-239
IC214, 215
TILT BUFF IC214
TILT 1
TILT 4
TILT 2
TILT 3
H SIN DEVIDER IC218
H.SIN BUFF IC216
H.SIN 1
H.SIN 2
E INV 202
1/2H BUFF Q205
1/2H
V.SIN BUFF IC210
V SIN 1 MULTIPLEX Q210-223
V SIN 2 MULTIPLEX Q206-213
V.SIN 1
V.SIN 2
V.SAW LIMIT
E INV IC202
1/2V BUFF Q204
1/2V
V.PULSE
BLK MIX IC402
BLK BUFF Q401,402
C.BLK
HSXVS
H.PARA
H.SAW
V.PARA
V.SAW
HPXVS
HSXVP
BLK(B)
BLK(T)
BLK(R)
BLK(L)
H.SIZE
ABL
V.SIZE
H.SAW
DA (LARGE WAVEFORM GENERATOR)
DATA BAS BUFF IC501
DATA BAS BUFF IC502
ADD BAS BUFF IC503
ADD BAS BUFF IC504
D0-D7
WR, A0, A1
A2-A7
A5-A7
A2-A4
IC505
IC506
IC507
IC508
IC509
IC510
ADD DECODE IC505-510
IC552 STAND VOLT. REG
H.CENT. CONT-1 IC511
H.CENT. CONT-2 IC512
H.SKEW CONT IC513
H.BOW. CONT IC514
H.SIZE CONT IC515
H.LIN CONT IC516
H.KEYS. CONT IC517
H PIN CONT IC518
V.CENT. CONT-1 IC519
V.CENT. CONT-2 IC520
V.SIZE CONT IC521
V.LIN. CONT IC522
V.SKEW. CONT IC523
V.BOW. CONT IC524
V.KEYS. CONT IC525
V.PIN. CONT IC526
H.ZONE CONT IC527-534
V.ZONE CONT IC535-542
IC527 … IC542
USER CONT IC543
DRV CONT IC544
BKG CONT IC545
BLK CONT IC546
H.CENT (R.G.B)
V.SINE 1
SHARP
COLOR
HUE
VOL
V.SINE 2
DRV(G)
DRV(R)
DRV(B)
PIC
V.SAW
H.SINE 1
BKG(G)
BKG(R)
BKG(B)
BRT
V.PARA
H.SINE 2
BLK(T)
BLK(B)
BLK(LEFT)
BLK(RIGHT)
H.SAW
TILT 1
H.SIZE
H.SHIFT
H.KEYS
H.PIN
V.SIZE
V.SHIFT
H.PARA
TILT 3
HSXVS
TILT 2
HSXVP
HPXVS
TILT 4
V.OUT BUFF IC547(1/2), 548
V.DRIVE R.G.B
SUB OUT BUFF IC549, 550(1/2)
V.SUB R.G.B
IC550(2/2), 551
H.SUB R.G.B
DB (ELECTRONIC VR)
R SUB AMP IC101
G.SUB AMP IC102
B.SUB AMP IC103
R.H.SUB PRE DRIVE IC301
G.H.SUB PRE DRIVE IC302
B.H.SUB PRE DRIVE IC303
R.H.SUB DRIVE Q302
G.H.SUB DRIVE Q306
B.H.SUB DRIVE Q310
R.H.SUB ACTIVE LOAD Q301
R.H.SUB OUT Q303,304
G.H.SUB ACTIVE LOAD Q305
G.H.SUB OUT Q307,308
B.H.SUB ACTIVE LOAD Q309
B.H.SUB OUT Q311,312
H.SUB(R)
H.SUB(G)
H.SUB(B)
R.V.SUB AMP IC201
G.V.SUB AMP IC202
B.V.SUB AMP IC203
R.V.SUB DRIVE Q202
G.V.SUB DRIVE Q206
B.V.SUB DRIVE Q210
R.V.SUB ACTIVE LOAD Q201
R.V.SUB OUT Q203,204
G.V.SUB ACTIVE LOAD Q205
G.V.SUB OUT Q207,208
B.V.SUB ACTIVE LOAD Q209
B.V.SUB OUT Q211,212
V.SUB(R)
V.SUB(G)
V.SUB(B)
V.STOP DET IC3
V.STOP DET IC5
V.STOP DET IC7
R.V.OUT IC4
G.V.OUT IC6
B.V.OUT IC8
V.PULSE DET Q1
V.PULSE SET Q2
V.PLUSE DET Q3
V.DRIVE(R)
V.DRIVE(G)
V.DRIVE(B)
V.DY (R)
V.DY (G)
V.DY (B)
V.INV
V.INV SW Q7
INV SENS.
V.STOP
V.STOP CONT SW Q4,5
V.PULSE
V.PULSE BUFF Q6
V.PULSE GEN IC9
+35V
+P VOLT SW Q105
BUFF Q103,104
AD HD SW Q102
AD HD BUFF Q101
AD.HD
AD HD BUFF Q106,107
-P VOLT SW Q108
-35V
CURRENT PROT Q9
+15.5V
+12V
+12V REG IC1
-12V
-12V REG IC2
CURRENT PROT Q10
-15.5V
FAN PROT
FAN PROT Q11,13
FAN PROT Q8
FAN6
FAN3
DC (V OUT SUB OUT)
V.SUB R.G.B
H.SUB R.G.B
DF
D0-D7
34
H.SAW
40
H.PARA
V.PARA
48
H.SIZE
H.PIN
H.KEYS
28
TO E BOARD
C.BLK
BRT
BKG(R)
BKG(B)
BKG(G)
PIC(CONT)
DRV(B)
DRV(R)
DRV(G)
29
TO CFA BOARD
VOL
HUE
COLOR
1
18
TO BB BOARD
TO BA BOARD
SHARP
H.CENT (R.G.B)
7
30
TO BM BOARD
TO E BOARD
DM (DEFLECTION MOTHER BOARD)

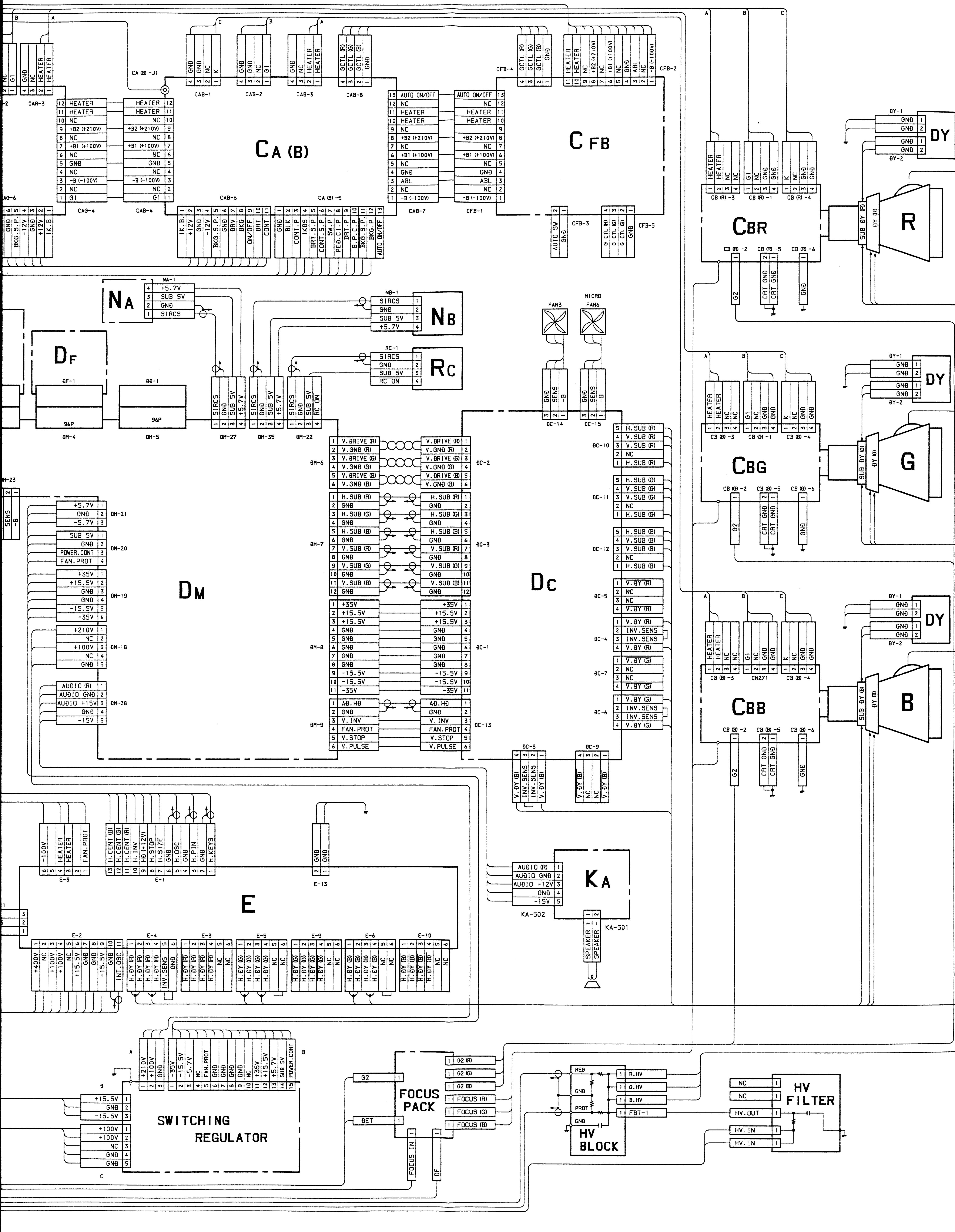

E (H.OUT)
H.KEYS
H.PIN
H.SIZE
F.V AMP IC106
FV AMP IC106,103
TP7 OFFSET ADJ
FV AMP IC105
FV AMP IC103
FV AMP IC104
TP1 FV
F-V AMP IC104
IC111
POWER OFF PROT Q102
POWER ON BIAS Q129
COMP
OSC
PRE DRIVE Q109
PIN.MOD.REG DRIVE Q107,108
T105
PIN MOD REG Q110
L112
F-V AMP IC105
PIN MOD LEVEL CONT IC107
PIN MOD PR AMP IC108
FV SW Q101
TP2 POWER
PIN MOD PROT Q106
PIN MOD AMP IC112
L106
TP3 PIN MOD OUT
PIN MOD PRE BUFF Q103,104
H.PIN OUT Q111,112
IC101
H.OSC
IC112 +B
IC112 -B
T2
+5V
-5V
H.SIZE PROT IC114
CURRENT PROT SW Q121
CURRENT PROT Q120
+100V
T3
LOT DRIVE Q22
LOT CONT Q21
-100V
HEATER
HEATER
TP8 SIZE DET
H.SIZE CONT Q113
RV104
INV OSC BUFF Q121
INT OSC
H OSC BUFF Q130,131
H DRIVE Q145
H DRIVE BUFF Q146,147
H DRIVE REG Q143,144
H.OSC DET IC113
CONT AMP Q132,134
H.OSC DEF IC113
VARIABLE REG. OUT Q135,136,142
IB CONST Q137,138
IB CONST Q139
IB DET Q148,140
T103 HDT
T104 HDT
H. OUT Q7
T102 HDT
SH-PULSE DET Q141
HD DRIVE Q118
HD. OUT Q116,117
CD
IC101
TP6 H.STOP
H.STOP SW Q115
H.STOP
HD(+12V)
H.INV
H.CENT(R)
IC1
H.CENT OUT Q1,2
LV3
H.DY (R)
H. INV
H.CENT(G)
H.DY (G)
H.CENT(B)
H.DY (B)
FAN PROT
FAN5
SENS
FAN PROT SW Q128
+15V
+15.5V
+12V
+12V REG IC109
-12V
-12V REG IC110
-15V
-15.5V
DM
DECODER IC301
DECODER IC302
DISPLAY IC304
BUFFER Q301,302
DECODER IC303
BUFFER Q303,304
D0-D7
LED(WR)
1COM
2COM
L (ERROR CODE DISPLAY)
SWITCHING REGULATOR
SUB 5V
+5.7V
+15.5V
+35V
+100V
+210V
-5.7V
-15.5V
-35V
AC IN
POWER CONT
FAN PROT
PA (HIGH VOLTAGE REG)
FAN PROT
POWER CONT
H.STOP
V.STOP
H.V PROT
Ik PROT
STOP INV Q17
POWER CONT Q15
STOP BUFF Q16
+15.5V
+15V
+12V REG IC5
+12V
-12V REG IC6
-12V
-15.5V
-15V
IK PROT BUFF IC4
HV PROT DET IC2
HV PROT DET IC2
H.V PROT
TP7,8,9 HV/PROT
HV STOP SW Q7
Σ Ik DET Q2
Σ Ik PROT BUFF IC4
Σ Ik PROT IC3
LOW B PROT IC3
H.V STOP SW Q8
Σ Ik DET Q1
OSC DEV IC8
X1
OSC DEV IC7
OSC DEV IC8
OSC BUFF Q4
IC9
IC9
IC10
TP1 REG OSC
REG OSC BUFF Q5
BUFFER Q3
HV LIMIT IC11
COMP IC12
COMP OUT BUFF Q9,10
HV REG DET IC1
TP3 HV DET
HV REG CONTROL IC1
HV LIMIT IC11
TP16,17,18 HV REG
IC13
REG PROT Q11
HV REG REF
IC9
IC9
IC10
V PARA
H PARA
H SAW
-35V
28
45
23
30
34
21
41
26
12
25
22
47
26
48
40

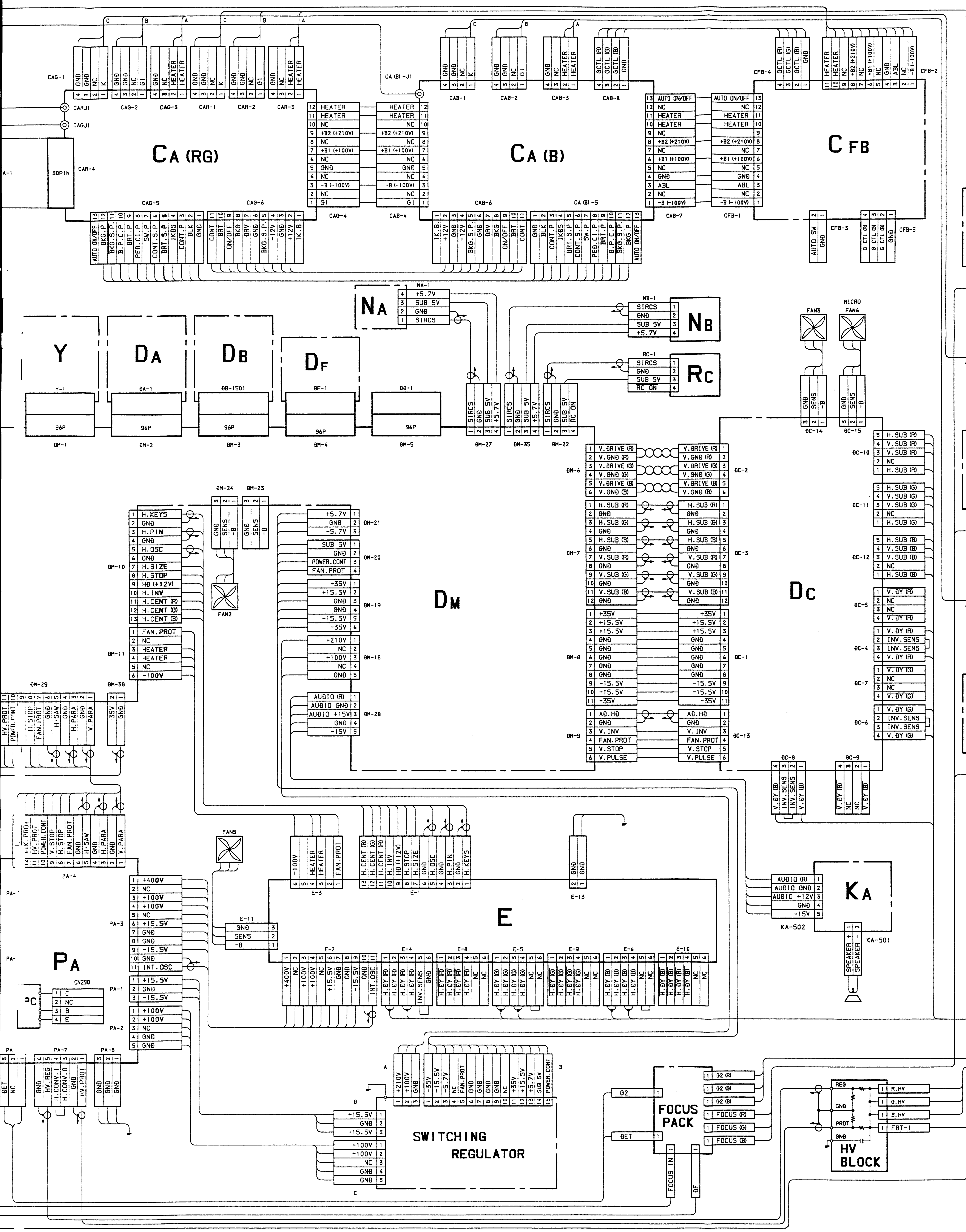

L (ERROR CODE DISPLAY)
DECODER IC301
DECODER IC302
DISPLAY IC304
BUFFER Q301,302
DECODER IC303
BUFFER Q303,304
D0-D7
LED (WR)
1COM
2COM
DM
KA (AUDIO)
AUDIO OUT(R)
Q502 BUFFER
AMP IC501
Q501 REG
-15.5V
SPEAKER(+)
SPEAKER(-)
SPEAKER
K (DYNAMIC FOCUS)
H.PARA, H SAW
V.PARA
AMP1 IC201(1/2)
AMP2 IC202
Q202 AMP3
Q205,206 BUFFER2
T201
DF
AMP1 IC201(2/2)
Q203 AMP2
Q204 BUFFER1
Q201 FILTER
-35V
V PARA
H PARA
H SAW
IC9
IC10
TP1 REG OSC
REG OSC BUFF Q5
BUFFER Q3
HV LIMIT IC11
COMP IC12
COMP OUT BUFF Q9,10
HV REG OUT Q19
DRIVE CONTROL Q21,22
HV CONV DRIVE Q20
T1
PC
HV OUT Q1
FBT HOT
FBT COOL
HV CONV 0
HV CONV 1
HV REG
HV PROT
TP3 HV DET
HV REG DET IC1
HV REG CONTROL IC1
TP16,17,18 HV REG
IC13 HV REG REF
REG PROT Q11
TP10 HV DRV
HV DRIVE BUFF Q6
OSC DEV IC8
OSC BUFF Q4
TP2 INT OSC
G2 REG PROT Q12,13
G2 REG Q18
12V
G2
DET
INT OSC
TP15 ABL
ABL
CFA (FILTER)
CFB (FILTER)
DM
PB (FBT)
FBT10
FBT11
HEATER
CA(R)-J1 R IN
CA(G)-J1 G IN
CA(B)-J1 B IN
SIGNAL PROCESSING IC104
SIGNAL PROCESSING IC204
SIGNAL PROCESSING IC304
IN
BPCP
BRT
DRV
BKG
ON/OFF
OUT
BKG.P
PED.CI.P
CONT.S.P
CONT.P
SW.P
BLK
CONT
DRV(R)
BKG(R)
ON/OFF(R)
DRV(G)
BKG(G)
ON/OFF(G)
DRV(B)
BKG(B)
ON/OFF(B)
Q113 γ CORRECT
IC101 VIDEO OUT
Q103 Ik DETECTOR
Q107 Ik DETECTOR
IC102, Q111 AUTO BKG
Q101,102,115 G1 CONT
R.OUT
IC201 VIDEO OUT
Q203 Ik DETECTOR
Q207 Ik DETECTOR
IC202, Q211 AUTO BKG
Q201,202,215 G1 CONT
G.OUT
IC305 γ CORRECT
IC301 VIDEO OUT
Q303 Ik DETECTOR
Q307 Ik DETECTOR
IC302,Q311 AUTO BKG
Q301,302,315 G1 CONT
B.OUT
BRT
CONTRAST(PIC)
Q1 CONTRAST CONTROL
C.BLK
Q8,10,IC6 BLK BUFFER
H.D
V.D
IC4-7 PULSE GENERATOR
CP
BLK
IC811/21,Q14 PEAK ABL
IC812/21,Q15-19 S.T. ABL
+15.5V
IC2 +12V REG
+12V
-15.5V
IC1 -12V REG
-12V
IC3 +5V REG
+5V
CA(RG) (VIDEO OUT) (R),(G)
CA(B) (VIDEO OUT(B))
Q32-40 G1 BLK
-100V
Q42 RIPPLE FILTER
Q41 RIPPLE FILTER
+210V
+100V
Q44 RIPPLE FILTER
+B1
Q43 CURRENT PROT
Q30,31 ≠ ABL
G1
H
K
G2
CB R (R OUT)
CB G (G OUT)
CB B (B OUT)
FOCUS PACK
G2 FOCUS
DET SCREEN
DF MV
R
G
B
㉞ ㉑ ㊶ ㊽ ㊵ ⑭ ⑮ ⑯ ㉔ ㊷ ㉙ ㉗ ⑧

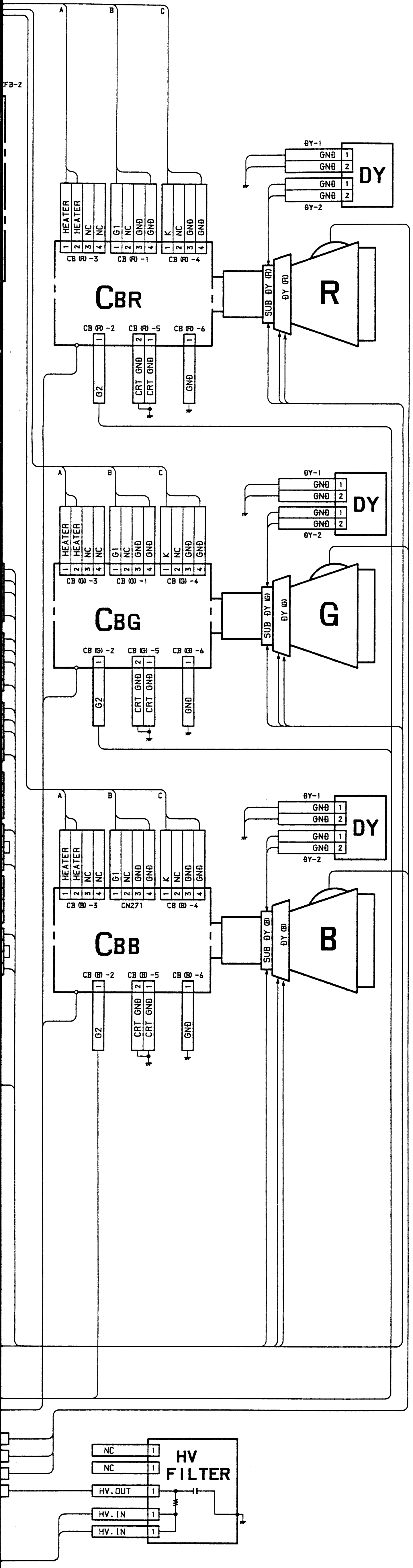

SPEAKER
CFA (FILTER)
⑭ ⑮ ⑯ ㉔ ㊷ ㉙ ㉗ ❽
BLK
CA(R)-J1 R IN
CA(G)-J1 G IN
CA(B)-J1 B IN
DRV(R)
BKG(R)
ON/OFF(R)
DRV(G)
BKG(G)
ON/OFF(G)
BRT
CONTRAST (PIC)
C.BLK
H.D
V.D
CP
ON/OFF(B)
BKG(B)
DRV(G)
DRV(B)
SIGNAL PROCESSING IC104
SIGNAL PROCESSING IC204
SIGNAL PROCESSING IC304
26 IN
25 BPCP
10 BRT
9 DRV
8 BKG
19 ON/OFF
OUT 3
BKG.P 7
PED.CI.P 18
CONT.S.P 21
CONT.P 22
SW.P 24
BLK 5
CONT 23
Q113 γ CORRECT
IC101 VIDEO OUT
IC201 VIDEO OUT
IC301 VIDEO OUT
IC305 γ CORRECT
Q103 Ik DETECTOR
Q107 Ik DETECTOR
Q203 Ik DETECTOR
Q207 Ik DETECTOR
Q303 Ik DETECTOR
Q307 Ik DETECTOR
IC102, Q111 AUTO BKG
IC202, Q211 AUTO BKG
IC302, Q311 AUTO BKG
Q101, 102, 115 G1 CONT
Q201, 202, 215 G1 CONT
Q301, 302, 315 G1 CONT
R.OUT
G.OUT
B.OUT
H
G1
Q1 CONTRAST CONTROL
Q8, 10, IC6 BLK BUFFER
IC4-7 PULSE GENERATOR
IC8(1/2), Q14 PEAK ABL
IC8(2/2), Q15-19 S.T. ABL
IC2 +12V REG
+15.5V
+12V
IC1 -12V REG
-15.5V
-12V
IC3 +5V REG
+12V
+5V
CA(RG) (VIDEO OUT (R), (G))
Q32-40 G1 BLK
Q42 RIPPLE FILTER
-100V
Q41 RIPPLE FILTER
+210V
Q43 CURRENT PROT
+210V
Q44 RIPPLE FILTER
+100V
+B1
HEATER
HEATER
ABL
Q30, 31 ≍ ABL
CA(B) (VIDEO OUT(B))
DM
CFB (FILTER)
CB R (R OUT)
CB G (G OUT)
CB B (B OUT)
K
G2
FOCUS
(R)
(G)
(B)
SUB DY(R)
DY(R)
SUB DY(G)
DY(G)
SUB DY(B)
DY(B)
PB (FBT)
FBT HOT
FBT COOL
ABL
FBT 10
FBT 11
FOCUS PACK
G2
FOCUS R G B
DET
SCREEN R G B
DF
MV
HV BLOCK
REG
PROT
R
G
B
IN
OUT
HV FILTER
IN
IN

2-3. FRAME SCHEMATIC DIAGRAMS


CA (RG)
CFA
CFA-2
CFA-1
30PIN
CAR-4
CAG-1
CAG-2
CAG-3
CAR-1
CAR-2
CAR-3
CAG-4
CAG-5
CAG-6
CARJ1
CAGJ1
CA (B) -J1
CAB-1
CAB-4
HEATER
NC
+B2 (+210V)
+B1 (+100V)
GND
-B (-100V)
G1
GND
K
AUTO ON/OFF
BKG.S.P.
B.P.C.P.
BRT.P
PED.CI.P
SW.P
CONT.S.P
BRT.S.P
IKDS
CONT.P
BLK
CONT
BRT
ON/OFF
BKG
DRV
-12V
+12V
IK.B
1.GND 8.GND 15.DRV (G) 22.DRV (G) 29.BRT
2.GND 9.I/ZH 16.DRV (R) 23.NC 30.B.P.C.P.
3.+15V 10.+12PROT 17.BKG (R) 24.BKG (G)
4.+15V 11.HD 18.BKG (B) 25.NC
5.-15V 12.-12PROT 19.ON/OFF (B) 26.ON/OFF (G)
6.-15V 13.VD 20.ON/OFF (R) 27.BLK
7.GND 14.NC 21.NC 28.CONTRAST
30PIN
BM-8
L
L-301
SUB +5V
GND
D0
D1
D2
D3
D4
D5
D6
D7
LED (WR)
BM-31
NA
NA-1
+5.7V
SUB 5V
GND
SIRCS
Y
Y-1
DA
DA-1
DB
DB-1501
DF
DF-1
DD-1
96P
BM-1
BM-2
BM-3
BM-4
BM-5
J1 R OUT
J2 G OUT
J3 B OUT
J4 R IN
J5 G IN
J6 B IN
BC
BC-1
BM-6
64PIN
BA
BA-1
BM-4
96PIN
BB
BB-1
BM-3
QA
QA-1
BM-5
(INTERFACE unit)
BM
BM-1
96PIN
BM-33
BM-2
64PIN
BM-34
BM-10
SIRCS
GND
SIRCS (BB)
INDEX/NOT
SUB +5V
BM-25
BM-29
BM-38
ABL
ΣIK.PROT
HV.PROT
POWER.CONT
V.STOP
H.STOP
FAN.PROT
H-SAW
H.PARA
V.PARA
+210V
+100V
-100V
-35V
BM-24
BM-23
SENS
-B
FAN2
BM-10
H.KEYS
H.PIN
H.OSC
H.SIZE
H.STOP
HD (+12V)
H.INV
H.CENT (R)
H.CENT (G)
H.CENT (B)
BM-11
FAN.PROT
BM-21
+5.7V
-5.7V
BM-20
SUB 5V
POWER.CONT
FAN.PROT
BM-19
+35V
+15.5V
-15.5V
-35V
BM-18
+210V
+100V
BM-28
AUDIO (R)
AUDIO GND
AUDIO +15V
-15V
DM
BM-7
BM-9
POWER CONT
+15.5V
AUDIO (L)
AUDIO (R)
HD.IN
VD.IN
RGB/VIDEO
VIDEO/TC
SEL 2
SHARPNESS
COLOR/B&W
GBR/YPBPR
HDVS SEL
QM-2
QM-3
QB
QB-1
QM-1
(OPTION BOARD)
QM
QM-4
J7
J8
J9
FAN5
E-3
E-1
E-11
E-2
E-4
E-8
INT.OSC
H.DY (R)
H.DY (G)
H.DY (B)
INV.SENS
PA
PA-4
PA-6
FBT.COOL
FBT.HOT
PA-3
+400V
PA-5
H.SAW
PA-1
PA-2
CN290
PC
C
B
E
PA-9
PA-7
PA-8
DET
G2
HV.REG
H.CONV.I
H.CONV.O
HV.PROT
PB
FBT1
FBT2
PB-1
K
K-3
K-1
K-4
K-2
DF
SWITCHI
RE
A
B
C


CA (B)
C FB
CBR
CBG
CBB
R
G
B
DY
NA
NB
RC
DF
DM
DC
E
KA
SWITCHING REGULATOR
FOCUS PACK
HV BLOCK
HV FILTER
CA (B) -J1
CAB-1
CAB-2
CAB-3
CAB-8
CAB-4
CAB-6
CA (B) -5
CAB-7
CFB-1
CFB-2
CFB-3
CFB-4
CFB-5
CAR-3
CAG-4
NA-1
NB-1
RC-1
DF-1
DD-1
DM-4
DM-5
96P
DM-27
DM-35
DM-22
DM-6
DM-7
DM-8
DM-9
DM-18
DM-19
DM-20
DM-21
DM-23
DM-28
DC-1
DC-2
DC-3
DC-4
DC-5
DC-6
DC-7
DC-8
DC-9
DC-10
DC-11
DC-12
DC-13
DC-14
DC-15
FAN3
FAN6
MICRO
E-1
E-2
E-3
E-4
E-5
E-6
E-8
E-9
E-10
E-13
KA-501
KA-502
DY-1
DY-2
CN271
SPEAKER +
SPEAKER -
HEATER
GND
+B2 (+210V)
+B1 (+100V)
-B (-100V)
AUTO ON/OFF
ABL
G1
G2
K
NC
SIRCS
SUB 5V
+5.7V
RC ON
V.DRIVE (R)
V.GND (R)
V.DRIVE (G)
V.GND (G)
V.DRIVE (B)
V.GND (B)
H.SUB (R)
H.SUB (G)
H.SUB (B)
V.SUB (R)
V.SUB (G)
V.SUB (B)
+35V
+15.5V
-15.5V
-35V
AD.HD
V.INV
FAN.PROT
V.STOP
V.PULSE
V.DY (R)
V.DY (G)
V.DY (B)
INV.SENS
POWER.CONT
-5.7V
+210V
+100V
AUDIO (R)
AUDIO GND
AUDIO +15V
AUDIO +12V
-15V
H.CENT (R)
H.CENT (G)
H.CENT (B)
H.INV
HD (+12V)
H.STOP
H.SIZE
H.OSC
H.PIN
H.KEYS
+400V
INT.OSC
H.DY (R)
H.DY (G)
H.DY (B)
G2 (R)
G2 (G)
G2 (B)
FOCUS (R)
FOCUS (G)
FOCUS (B)
FOCUS IN
DF
DET
R.HV
G.HV
B.HV
FBT-1
REG
PROT
HV.OUT
HV.IN
CRT GND
SUB DY (R)
SUB DY (G)
SUB DY (B)
DY (R)
DY (G)
DY (B)
IK.B
+12V
-12V
BKG.S.P.
DRV
BKG
ON/OFF
BRT
CONT
BLK
CONT.P
IKOS
BRT.S.P
CONT.S.P
SW.P
PED.CI.P
DRT.P
B.P.C.P
BKG.P
GCTL (R)
GCTL (G)
GCTL (B)
AUTO SW
SENS
-B


CA (RG)
CA (B)
C FB
NA
NB
RC
Y
DA
DB
DF
DM
DC
E
KA
PA
FOCUS PACK
SWITCHING REGULATOR
HV BLOCK
FAN2
FAN3
FAN5
MICRO FAN6
CAG-1
CAG-2
CAG-3
CAR-1
CAR-2
CAR-3
CAR-4
CARJ1
CAGJ1
30PIN
CAG-4
CAG-5
CAG-6
CA (B) -J1
CAB-1
CAB-2
CAB-3
CAB-4
CAB-6
CAB-7
CAB-8
CA (B) -5
CFB-1
CFB-2
CFB-3
CFB-4
CFB-5
NA-1
NB-1
RC-1
Y-1
DA-1
DB-1501
DF-1
DD-1
96P
DM-1
DM-2
DM-3
DM-4
DM-5
DM-6
DM-7
DM-8
DM-9
DM-10
DM-11
DM-18
DM-19
DM-20
DM-21
DM-22
DM-23
DM-24
DM-27
DM-28
DM-29
DM-35
DM-38
DC-1
DC-2
DC-3
DC-4
DC-5
DC-6
DC-7
DC-8
DC-9
DC-10
DC-11
DC-12
DC-13
DC-14
DC-15
E-1
E-2
E-3
E-4
E-5
E-6
E-8
E-9
E-10
E-11
E-13
KA-501
KA-502
PA-1
PA-2
PA-3
PA-4
PA-7
PA-8
CN290
G2
DET
FOCUS IN
DF
G2 (R)
G2 (G)
G2 (B)
FOCUS (R)
FOCUS (G)
FOCUS (B)
R.HV
G.HV
B.HV
FBT-1
REG
PROT
GND
SPEAKER +
SPEAKER -
HEATER
+B2 (+210V)
+B1 (+100V)
-B (-100V)
AUTO ON/OFF
ABL
SIRCS
SUB 5V
+5.7V
RC ON
V.DRIVE (R)
V.DRIVE (G)
V.DRIVE (B)
H.SUB (R)
H.SUB (G)
H.SUB (B)
V.SUB (R)
V.SUB (G)
V.SUB (B)
+35V
+15.5V
-15.5V
-35V
AD.HD
V.INV
FAN.PROT
V.STOP
V.PULSE
H.KEYS
H.PIN
H.OSC
H.SIZE
H.STOP
HD (+12V)
H.INV
H.CENT (R)
H.CENT (G)
H.CENT (B)
POWER.CONT
AUDIO (R)
AUDIO GND
AUDIO +15V
AUDIO +12V
+210V
+100V
+400V
INT.OSC
V.DY (R)
V.DY (G)
V.DY (B)
H.DY (R)
H.DY (G)
H.DY (B)
INV.SENS
HV.PROT
HV.REG
H.CONV.I
H.CONV.O
H.SAW
H.PARA
V.PARA
A
B
C



2-4. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note :

- All capacitors are in µF unless otherwise noted. pF : µµF 50WV or less are not indicated except for electrolytics.
- All electrolytics are in 50V unless otherwise specified.
- All resistors are in ohms, 1/4W in resistance, 1/10W in chip resistance.
  kΩ=1000Ω, MΩ=1000kΩ
- ⊟ : nonflammable resistor.
- ⏦ : fusible resistor.
- △ : internal component.
- ▭ : panel designation and adjustment for repair.
- All variable and adjustable resistors have charactristic curve B, unless otherwise noted.

- The components identified by ⊠ in this basic schematic diagrams have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required replace only with the value originally used.
- When replacing components identified by ◪, make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by ⊠ and repeat the adjustment untill the specified value is achieved. (Refer to R1, R4. R29, R30, R33, R34, R131, R132, adjust on Page 6~9.)

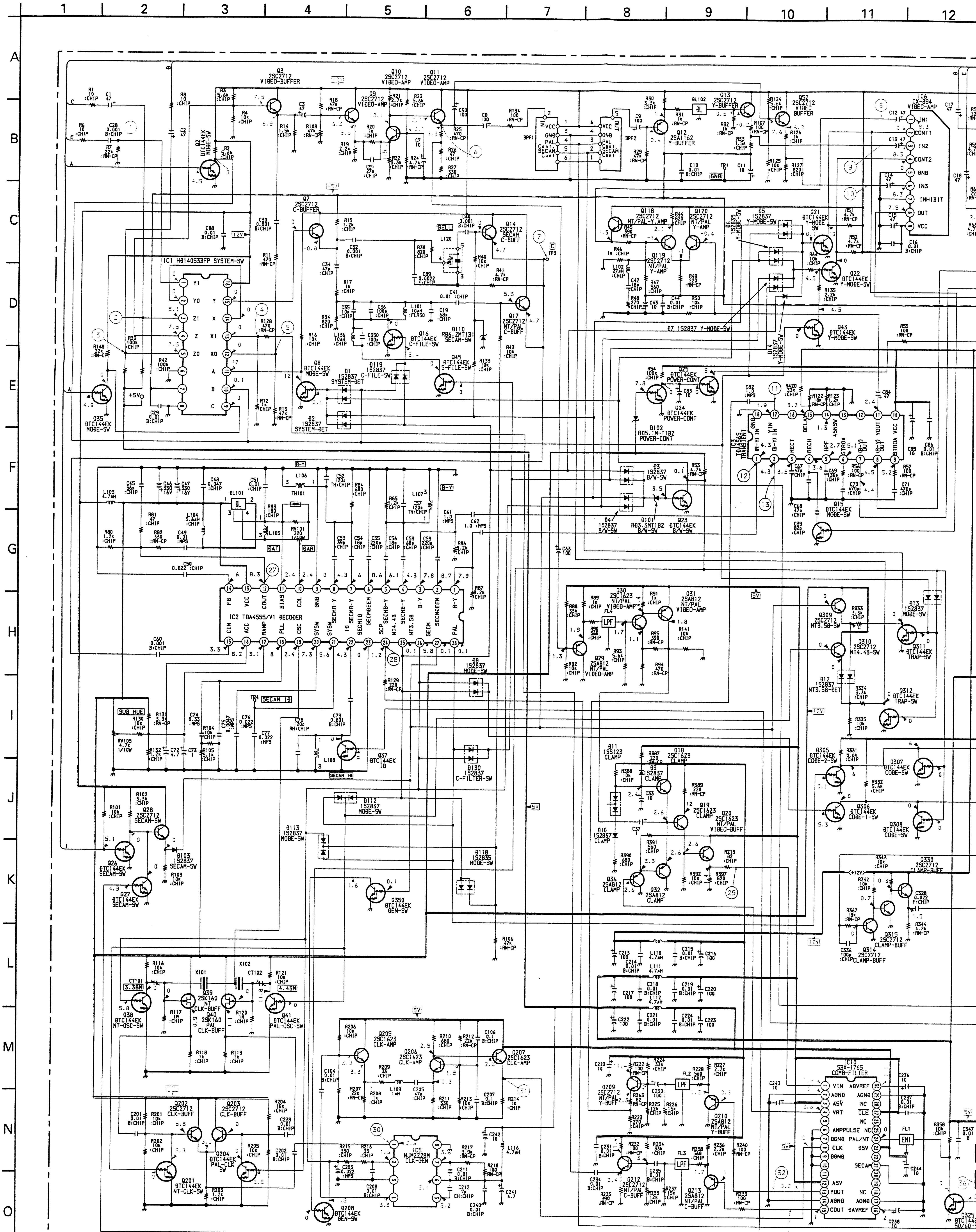
Part replaced(◪)	Adjustment(⊠)
IC2, Q7, D9, D12, C13, R20, R21, R22. R23, R24, R33, R34, R35, R36, R82, (PA BOARD) PA MOUNT HV BLOCK	HV HOLD DOWN (R33,R34)
IC1, IC7, IC8, IC9, IC10, IC11, IC12, IC13,R38, R39, R63, R64, R65, R66, R69, R72, R78, R80, R131, R132, X1,(PA BOARD) PA MOUNT, PB MOUNT HV BLOCK	HV REGULATION (R131,R132)
IC2, IC3, IC5, Q1, Q2, Q7, Q8, D4. D5, D9, R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R20, R21, R22, R23, R24, R43, R44, R45, R46, R47, R82, R88, R121. R122, (PA BOARD), R143, R144 R733, (DA BOARD) PA MOUNT, PB MOUNT	BEAM CURRENT PROTECTOR (R1,R4)
IC1, IC3, IC5, Q8, D4, D5, D10, D11, R9, R10, R26, R28, R29, R30, R31, R88, R95, (PA BOARD) PA MOUNT	LOW B PROTECTOR (R29,R30)

Voltage value is the reference value between it and the earth, when NTSC 3.58 color bar signal is received from color bar generator (digital multi-meter used : 10M ohms/V DC).

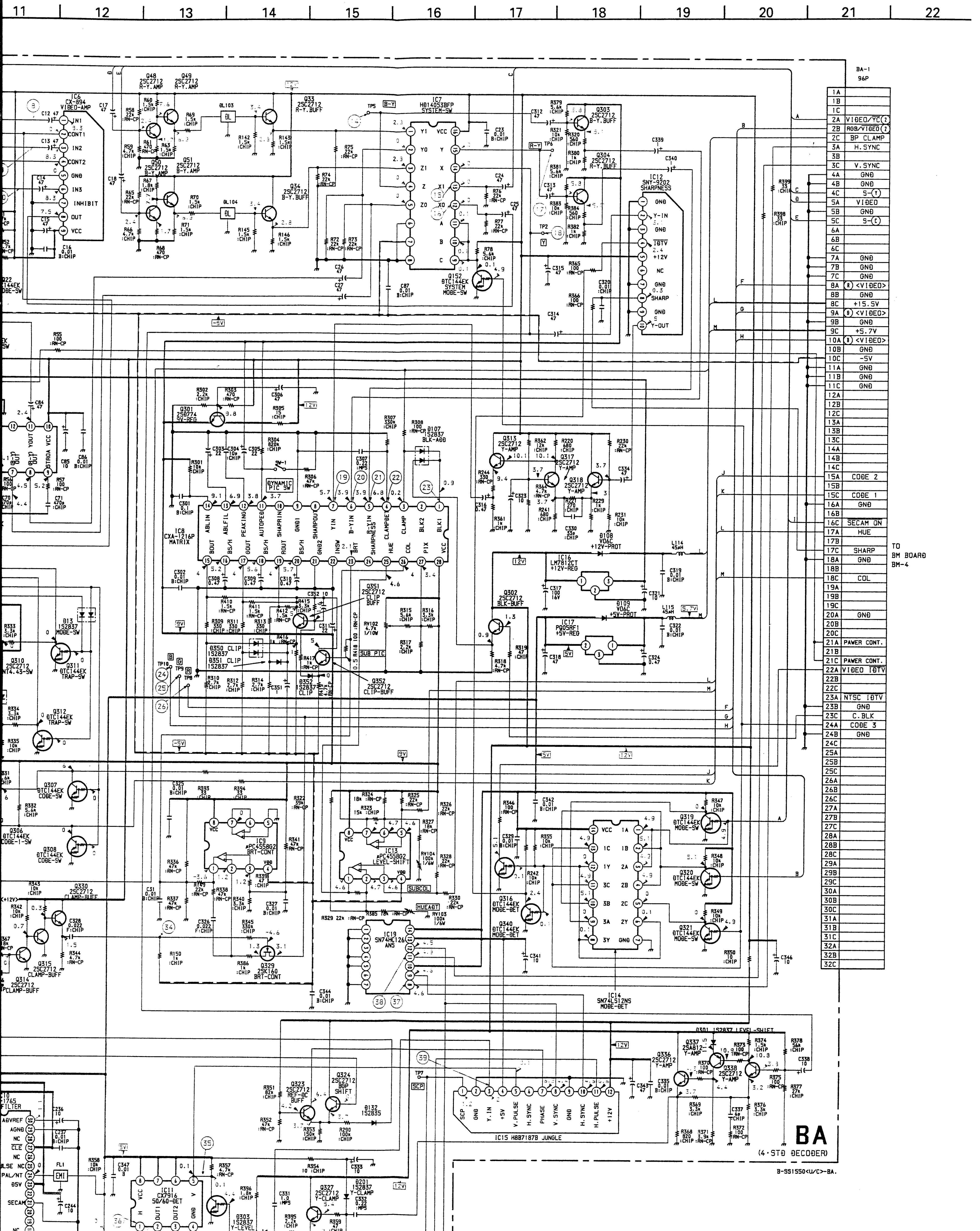
- Displays a list of BB, BA board modes.
  (PAL, SECAM, NTSC 3.58, NTSC 4.43)
  Display a list of existing voltages, when board E has issued a white pattern of internal signals.
- Unit of voltage values is V (volt)
- ⁎ : Measurement disabled.
- ▬ : B+ line
- ■ ■ ■ : B− line
  (Actual measured value may be different).
- Circled numbers are waveform references.

Reference information

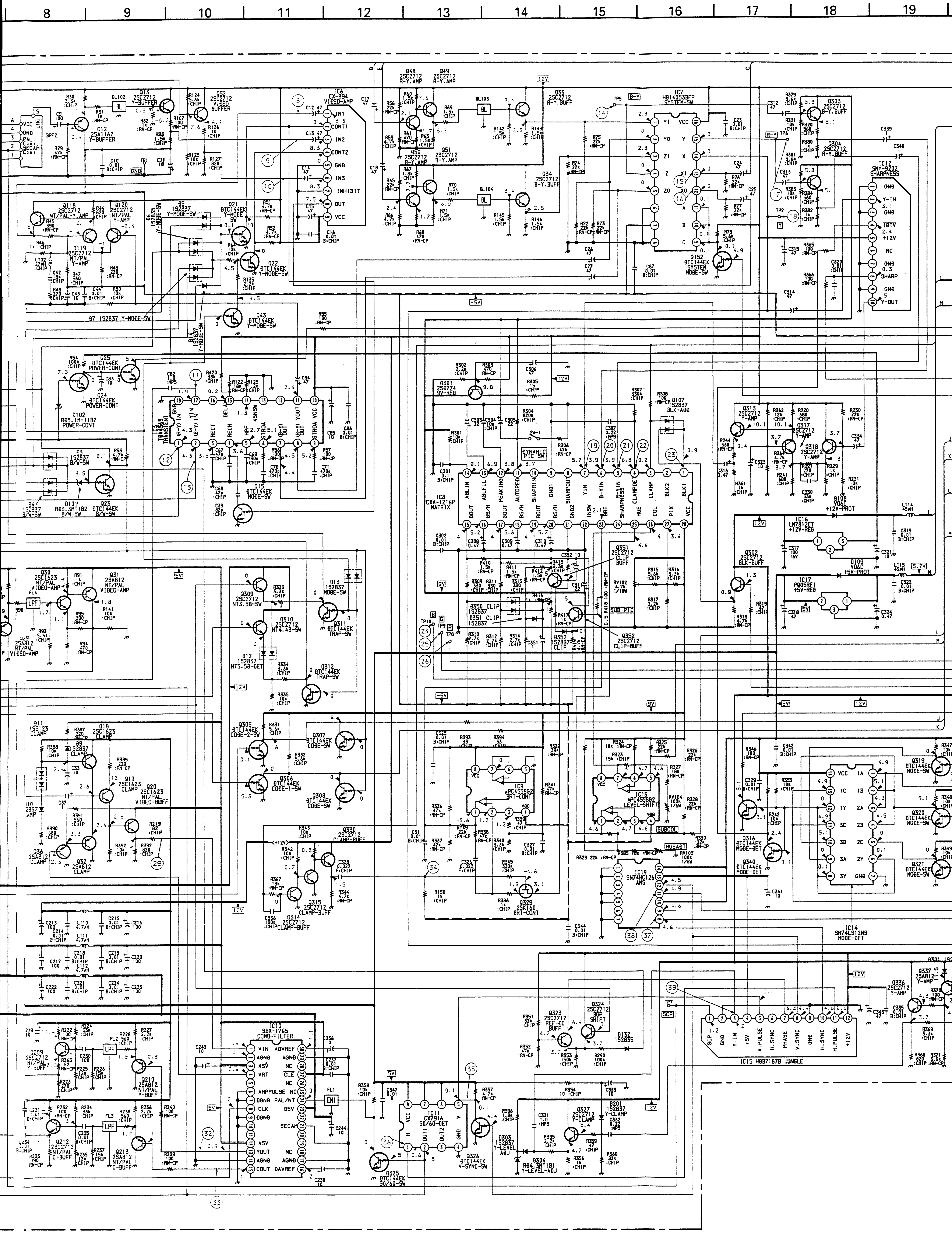
RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: RW	NONFLAMMABLE WIREWOUND
	: ※	ADJUSTMENT RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE


1
2
3
4
5
6
7
8
9
10
11
12
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
IC1 HD14053BFP SYSTEM-SW
IC2 TDA4555/V1 DECODER
IC5 NJM2228M CLK-GEN
IC6 CX-894 VIDEO-AMP
IC10 SBX-1765 COMB-FILTER
Q3 2SC2712 VIDEO-BUFFER
Q10 2SC2712 VIDEO-AMP
Q11 2SC2712 VIDEO-AMP
Q13 2SC2712 Y-BUFFER
Q52 2SC2712 VIDEO BUFFER
Q7 2SC2712 C-BUFFER
Q14 2SC2712 SECAM C-BUFF
Q35 DTC144EK MODE-SW
Q350 DTC144EK GEN-SW
Q37 DTC144EK ID
Q38 DTC144EK NT-OSC-SW
Q41 DTC144EK PAL-OSC-SW
Q207 2SC1623 CLK-AMP
Q208 DTC144EK GEN-SW
SUB HUE
SECAM ID
BELL
+5V
12V
5V

BA board ➡


11
12
13
14
15
16
17
18
19
20
21
22
IC6 CX-894 VIDEO-AMP
IN1
CONT1
IN2
CONT2
GND
IN3
INHIBIT
OUT
VCC
Q48 2SC2712 R-Y.AMP
Q49 2SC2712 R-Y.AMP
Q50 2SC2712 B-Y.AMP
Q51 2SC2712 B-Y.AMP
DL103
DL104
Q33 2SC2712 R-Y.BUFF
Q34 2SC2712 B-Y.BUFF
TP5
B-Y
R-Y
IC7 HD14053BFP SYSTEM-SW
Y1 VCC
Y0 Y
Z1 X
Z X1
Z0 X0
A
B
C
Q152 DTC144EK SYSTEM MODE-SW
Q303 2SC2712 B-Y.BUFF
Q304 2SC2712 R-Y.BUFF
TP6
TP2
IC12 SNY-9202 SHARPNESS
GND
Y-IN
GND
IDTV
+12V
NC
GND
SHARP
GND
Y-OUT
-5V
Q22 DTC144EK MODE-SW
YOUT
VCC
STROA VCC
Q301 2SD774 9V-REG
12V
SW-1
DYNAMIC PIC SW
IC8 CXA-1216P MATRIX
ABLIN
ABLFIL
PEAKING
AUTOPED
SHARPIN
GND1
SHARPOUT
YIN
B-YIN
R-YIN
CLAMPDET
CLAMP
BLK2
BLK1
BOUT
BS/H
GOUT
BS/H
ROUT
BS/H
GND2
INSW
BRT
SHARPNESS
HUE
COL
PIX
VCC
D107 1S2837 BLK-ADD
Q313 2SC2712 Y-AMP
Q317 2SC2712 Y-AMP
Q318 2SC2712 Y-AMP
D108 VO6C +12V-PROT
IC16 LM7812CT +12V-REG
D109 VO6C +5V-PROT
IC17 PQ05RF1 +5V-REG
5.7V
5V
Q302 2SC2712 BLK-BUFF
Q351 2SC2712 CLIP BUFF
Q352 2SC2712 CLIP-BUFF
D350 CLIP 1S2837
D351 CLIP 1S2837
D352 1S2837 CLIP
SUB PIC
9V
TP10
TP9
TP8
D13 1S2837 MODE-SW
Q310 2SC2712 NT4.43-SW
Q311 DTC144EK TRAP-SW
Q312 DTC144EK TRAP-SW
Q307 DTC144EK CODE-SW
Q306 DTC144EK CODE-1-SW
Q308 DTC144EK CODE-SW
Q330 2SC2712 CLAMP-BUFF
Q315 2SC2712 CLAMP-BUFF
Q314 2SC2712 CLAMP-BUFF
IC9 μPC4558G2 BRT-CONT
Q329 2SK160 BRT-CONT
IC13 μPC4558G2 LEVEL-SHIFT
SUBCOL
HUEADT
IC19 SN74HC126 ANS
Q319 DTC144EK MODE-SW
Q320 DTC144EK MODE-SW
Q321 DTC144EK MODE-SW
Q316 DTC144EK MODE-DET
Q340 DTC144EK MODE-DET
IC14 SN74LS12NS MODE-DET
VCC 1A
1C 1B
1Y 2A
3C 2B
3B 2C
3A 2Y
3Y GND
D301 1S2837 LEVEL-SHIFT
Q336 2SC2712 Y-AMP
Q337 2SA812 Y-AMP
Q338 2SC2712 Y-AMP
TP7
SCP
IC15 HD87187B JUNGLE
SCP
GND
Y.IN
+5V
V.PULSE
H.SYNC
PHASE
V.SYNC
GND
H.SYNC
H.PULSE
+12V
Q323 2SC2712 REF-BC BUFF
Q324 2SC2712 BGP SHIFT
D132 1S2835
IC10 1765 FILTER
ADVREF
NC
CLE
NC
PULSE NC
PAL/NT
DSV
SECAM
NC
AGND
DAVREF
FL1
EMI
IC11 CX7916 50/60-DET
Q325 DTC144EK 50/60-SW
Q326 DTC144EK V-SYNC-SW
Q327 2SC2712 Y-CLAMP
D201 1S2837 Y-CLAMP
D303 1S2837 Y-LEVEL ADJ
D304 RD4.3MT1B1 Y-LEVEL-ADJ
BA-1 96P
1A
1B
1C
2A VIDEO/YC ②
2B RGB/VIDEO ②
2C BP CLAMP
3A H.SYNC
3B
3C V.SYNC
4A GND
4B GND
4C S-Ⓨ
5A VIDEO
5B GND
5C S-Ⓒ
6A
6B
6C
7A GND
7B GND
7C GND
8A Ⓡ <VIDEO>
8B GND
8C +15.5V
9A Ⓖ <VIDEO>
9B GND
9C +5.7V
10A Ⓑ <VIDEO>
10B GND
10C -5V
11A GND
11B GND
11C GND
12A
12B
12C
13A
13B
13C
14A
14B
14C
15A CODE 2
15B
15C CODE 1
16A GND
16B
16C SECAM ON
17A HUE
17B
17C SHARP
18A GND
18B
18C COL
19A
19B
19C
20A GND
20B
20C
21A PAWER CONT.
21B
21C PAWER CONT.
22A VIDEO IDTV
22B
22C
23A NTSC IDTV
23B GND
23C C.BLK
24A CODE 3
24B GND
24C
25A
25B
25C
26A
26B
26C
27A
27B
27C
28A
28B
28C
29A
29B
29C
30A
30B
30C
31A
31B
31C
32A
32B
32C
TO BM BOARD BM-4
BA
(4-STD DECODER)

B-SS1550<U/C>-BA.


8
9
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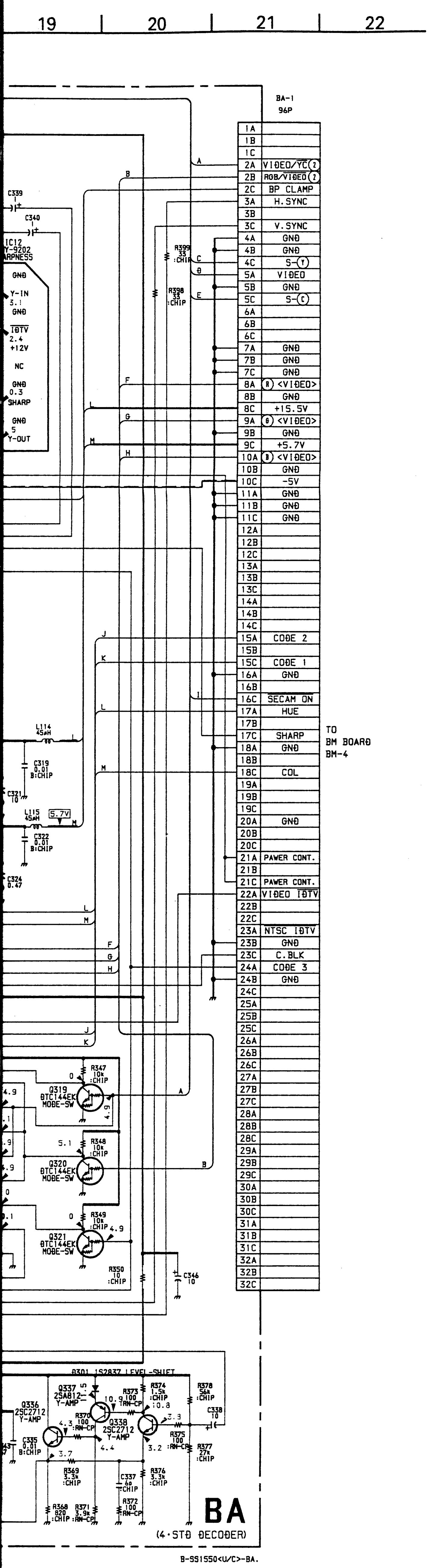
11
12
13
14
15
16
17
18
19
BPF2
Q13 2SC2712 Y-BUFFER
Q12 2SA1162 Y-BUFFER
Q52 2SC2712 VIDEO BUFFER
IC6 CX-894 VIDEO-AMP
IN1
CONT1
IN2
CONT2
GND
IN3
INHIBIT
OUT
VCC
Q48 2SC2712 R-Y.AMP
Q49 2SC2712 R-Y.AMP
Q50 2SC2712 B-Y.AMP
Q51 2SC2712 B-Y.AMP
Q33 2SC2712 R-Y.BUFF
Q34 2SC2712 B-Y.BUFF
IC7 HD14053BFP SYSTEM-SW
Q152 DTC144EK SYSTEM MODE-SW
Q303 2SC2712 B-Y.BUFF
Q304 2SC2712 R-Y.BUFF
IC12 SNY-9202 SHARPNESS
Y-IN
GND
IBTV
+12V
NC
SHARP
Y-OUT
Q118 2SC2712 NT/PAL-Y.AMP
Q119 2SC2712 NT/PAL Y-AMP
Q120 2SC2712 NT/PAL Y-AMP
D5 1S2837 Y-MODE-SW
D6 1S2835 Y-MODE-SW
D7 1S2837 Y-MODE-SW
Q21 DTC144EK Y-MODE SW
Q22 DTC144EK Y-MODE-SW
Q43 DTC144EK Y-MODE-SW
D14 1S2837 Y-MODE-SW
Q25 DTC144EK POWER-CONT
Q24 DTC144EK POWER-CONT
D102 RD5.1M-T1B2 POWER-CONT
IC3 TDA4565 TRANSIENT
Q15 DTC144EK MODE-SW
D3 1S2837 B/W-SW
D4 1S2837 B/W-SW
D101 RD3.3MT1B2 B/W-SW
Q23 DTC144EK B/W-SW
Q301 2SD774 9V-REG
D107 1S2837 BLK-ADD
IC8 CXA-1216P MATRIX
DYNAMIC PIC SW
ABLIN
ABLFIL
PEAKING
AUTOPED
SHARPIN
GND1
SHARPOUT
YIN
B-YIN
R-YIN
SHARPNESS
CLAMPDET
CLAMP
BLK2
BLK1
BOUT
BS/H
GOUT
ROUT
GND2
INSW
BRT
CONTRAST
HUE
COL
PIX
VCC
Q351 2SC2712 CLIP BUFF
Q352 2SC2712 CLIP-BUFF
D350 CLIP 1S2837
D351 CLIP 1S2837
SUB PIC
Q313 2SC2712 Y-AMP
Q317 2SC2712 Y-AMP
Q318 2SC2712 Y-AMP
D108 V06C +12V-PROT
IC16 LM7812CT +12V-REG
D109 V06C +5V-PROT
IC17 PQ05RF1 +5V-REG
Q302 2SC2712 BLK-BUFF
Q30 2SC1623 NT/PAL VIDEO-AMP
Q31 2SA812 NT/PAL VIDEO-AMP
Q29 2SA812 NT/PAL VIDEO-AMP
FL4 LPF
Q309 2SC2712 NT3.58-SW
Q310 2SC2712 NT4.43-SW
D12 1S2837 NT3.58-DET
D13 1S2837 MODE-SW
Q311 DTC144EK TRAP-SW
Q312 DTC144EK TRAP-SW
Q305 DTC144EK CODE-2-SW
Q306 DTC144EK CODE-1-SW
Q307 DTC144EK CODE-SW
Q308 DTC144EK CODE-SW
D11 1SS123 CLAMP
D9 1S2837 CLAMP
Q18 2SC1623 CLAMP
Q19 2SC1623 CLAMP
Q20 2SC1623 VIDEO-BUFF
Q36 2SA812 CLAMP
Q32 2SA812 CLAMP
Q330 2SC2712 CLAMP-BUFF
Q315 2SC2712 CLAMP-BUFF
Q314 2SC2712 CLAMP-BUFF
IC9 μPC4558G2 BRT-CONT
Q329 2SK160 BRT-CONT
IC13 μPC4558G2 LEVEL-SHIFT
SUBCOL
HUEADJ
IC19 SN74HC126 ANS
Q319 DTC144EK MODE-SW
Q320 DTC144EK MODE-SW
Q321 DTC144EK MODE-SW
Q316 DTC144EK MODE-DET
Q340 DTC144EK MODE-DET
IC14 SN74LS12NS MODE-DET
Q336 2SC2712 Y-AMP
Q337 2SA812 Y-AMP
Q323 2SC2712 REF-DC BUFF
Q324 2SC2712 BGP SHIFT
D132 1S2835
IC15 HD87187B JUNGLE
SCP
Y.IN
+5V
V.PULSE
H.SYNC
PHASE
V.SYNC
GND
H.PULSE
+12V
IC10 SBX-1765 COMB-FILTER
VIN
AGND
ASV
VRT
AMPPULSE
DGND
CLK
YOUT
COUT
ADVREF
CLE
PAL/NT
DSV
SECAM
DAVREF
FL1
Q209 2SC2712 NT/PAL Y-BUFF
Q210 2SA812 NT/PAL Y-BUFF
Q212 2SC2712 NT/PAL C-BUFF
Q213 2SA812 NT/PAL C-BUFF
FL2 LPF
FL3 LPF
IC11 CX7916 50/60-DET
Q325 DTC144EK 50/60-SW
Q326 DTC144EK V-SYNC-SW
D303 1S2837 Y-LEVEL ADJ
D304 RD4.3MT1B1 Y-LEVEL-ADJ
Q327 2SC2712 Y-CLAMP
D201 1S2837 Y-CLAMP
12V
9V
5V
-5V

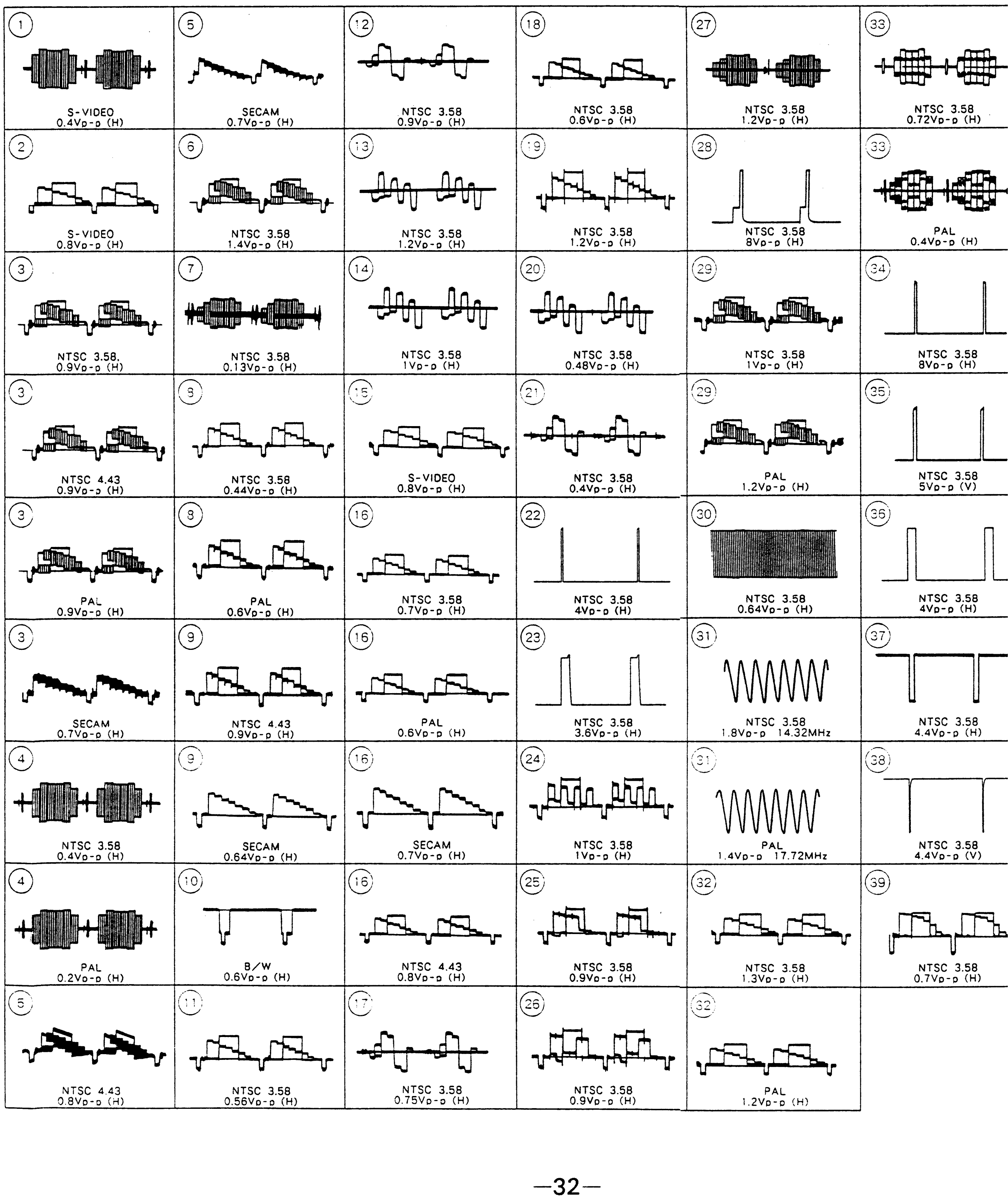

19
20
21
22
BA-1
96P
1A
1B
1C
2A VIDEO/YC ②
2B RGB/VIDEO ②
2C BP CLAMP
3A H.SYNC
3B
3C V.SYNC
4A GND
4B GND
4C S-Ⓨ
5A VIDEO
5B GND
5C S-Ⓒ
7A GND
7B GND
7C GND
8A Ⓡ <VIDEO>
8B GND
8C +15.5V
9A Ⓖ <VIDEO>
9B GND
9C +5.7V
10A Ⓑ <VIDEO>
10B GND
10C -5V
11A GND
11B GND
11C GND
15A CODE 2
15C CODE 1
16A GND
16C SECAM ON
17A HUE
17C SHARP
18A GND
18C COL
20A GND
21A PAWER CONT.
21C PAWER CONT.
22A VIDEO IDTV
23A NTSC IDTV
23B GND
23C C.BLK
24A CODE 3
24B GND
TO BM BOARD BM-4
C339
C340
IC12
Y-9202
ARPNESS
GND
Y-IN 3.1
GND
IDTV 2.4
+12V
NC
GND 0.3
SHARP
GND 5
Y-OUT
R399 33 :CHIP
R398 33 :CHIP
L114 45μH
C319 0.01 B:CHIP
C321 10
L115 45μH
5.7V
C322 0.01 B:CHIP
C324 0.47
Q319 DTC144EK MODE-SW
R347 10k :CHIP
Q320 DTC144EK MODE-SW
R348 10k :CHIP
Q321 DTC144EK MODE-SW
R349 10k :CHIP
R350 10 :CHIP
C346 10
D301 1S2837 LEVEL-SHIFT
Q337 2SA812 Y-AMP
Q336 2SC2712 Y-AMP
Q338 2SC2712 Y-AMP
R373 100 :RN-CP
R374 1.5k :CHIP
R378 56k :CHIP
C338 10
R370 100 :RN-CP
R375 100 :RN-CP
R377 27k :CHIP
C335 0.01 B:CHIP
R369 3.3k :CHIP
C337 6p :CHIP
R376 3.3k :CHIP
R368 820 :CHIP
R371 3.9k :RN-CP
R372 100 :RN-CP
BA
(4·STD DECODER)
B-SS1550<U/C>-BA.

BA BOARD

REF.	Pin. No.	NTSC 3.58	PAL	SECAM	NTSC 4.43
IC1	②	0	0	−0.7	−0.7
	⑪	12	12	0	0
	⑫	0	0	−0.7	−0.7
	⑭	0	0	−0.7	−0.7
	⑮	0	0	−0.7	−0.7
IC2	⑤	6.1	5.8	4.2	7.6
	⑦	6	5.5	4.2	7.3
	⑲	2.4	2.4	5.6	2.4
	⑳	7.5	5.7	5.7	7.5
	㉑	5.6	7.7	6.8	5.6
	㉕	0.1	0.1	0.1	5.8
	㉖	5.8	0.1	0.1	0.1
	㉗	0.1	0.1	5.8	0.1
	㉘	0.1	5.8	0.1	0.1
IC6	②	10	0	0	10
	④	0	10	10	0
IC10	㉔	0	3.6	3.6	0
IC11	②	5	0	0	5

REF.		NTSC 3.58	PAL	SECAM	NTSC 4.43	REF.		NTSC 3.58	PAL	SECAM	NTSC 4.43
Q7	B	0	0	−0.9	−0.8	Q203	B	0	5.3	5.8	5.8
	C	–	–	–	–		C	–	–	–	–
	E	−0.8	−0.8	−1.4	−1.4		E	5.2	5.1	5.2	5.1
Q8	B	0.1	0.1	5.3	5.3	Q204	B	5.8	0	0	0
	C	12	12	0	0		C	0	5.3	5.8	5.3
	E	–	–	–	–		E	–	–	–	–
Q16	B	5.4	0	0	5.4	Q208	B	0	0	0	0
	C	0	0	0	0		C	1.5	1.4	0	1.5
	E	–	–	–	–		E	–	–	–	–
Q17	B	5.3	5.3	0.2	5.3	Q305	B	0.1	5.8	0.1	0.1
	C	4.7	4.7	5	4.7		C	6	0	6	6
	E	–	–	–	–		E	–	–	–	–
Q21	B	0.1	0.1	5.3	5.3	Q306	B	5.3	0.1	0.1	5.3
	C	0	0	0	0		C	0	6	6	0
	E	–	–	–	–		E	–	–	–	–
Q22	B	4.5	4.5	0.5	0.5	Q307	B	0	0	0	0
	C	0	0	10	10		C	6	0	6	6
	E	–	–	–	–		E	–	–	–	–
Q27	B	4.9	0	0	4.9	Q308	B	0	0	0	0
	C	0	0	0	0		C	0	6	6	6
	E	–	–	–	–		E	–	–	–	–
Q37	B	5	0	0	5	Q309	B	0	0	5.7	0
	C	0	0	0	0		C	–	–	–	–
	E	–	–	–	–		E	0	0	5.1	0
Q38	B	5.7	0	0	0	Q310	B	0	5.1	0	5.1
	C	0	11.7	11.7	11.7		C	–	–	–	–
	E	–	–	–	–		E	0	4.5	1.4	4.5
Q41	B	0	5.9	0	5.1	Q311	B	0	0.5	0.2	0.5
	C	11.8	0	11.8	0		C	0	0	3.8	2.8
	E	–	–	–	–		E	–	–	–	–
Q43	B	0	0	0	0	Q312	B	0	0.5	0.2	0.5
	C	4.5	4.5	0.5	0.5		C	0	2.8	3.2	2.8
	E	–	–	–	–		E	–	–	–	–
Q45	B	0	5.4	0	0	Q325	B	5	0	0	5
	C	0	0	0	0		C	0	3.6	3.6	0
	E	–	–	–	–		E	–	–	–	–
Q201	B	0	5.2	0	5.2	Q350	B	0.1	0	5.9	0.1
	C	5.8	0	5.8	0		C	1.6	1.5	0	1.6
	E	–	–	–	–		E	–	–	–	–
Q202	B	5.8	0	5.8	0						
	C	–	–	–	–						
	E	5.2	5.1	5.2	5.1						

BA BOARD



BA [4-STD DECODER]

BA BOARD (COMPONENT SIDE)

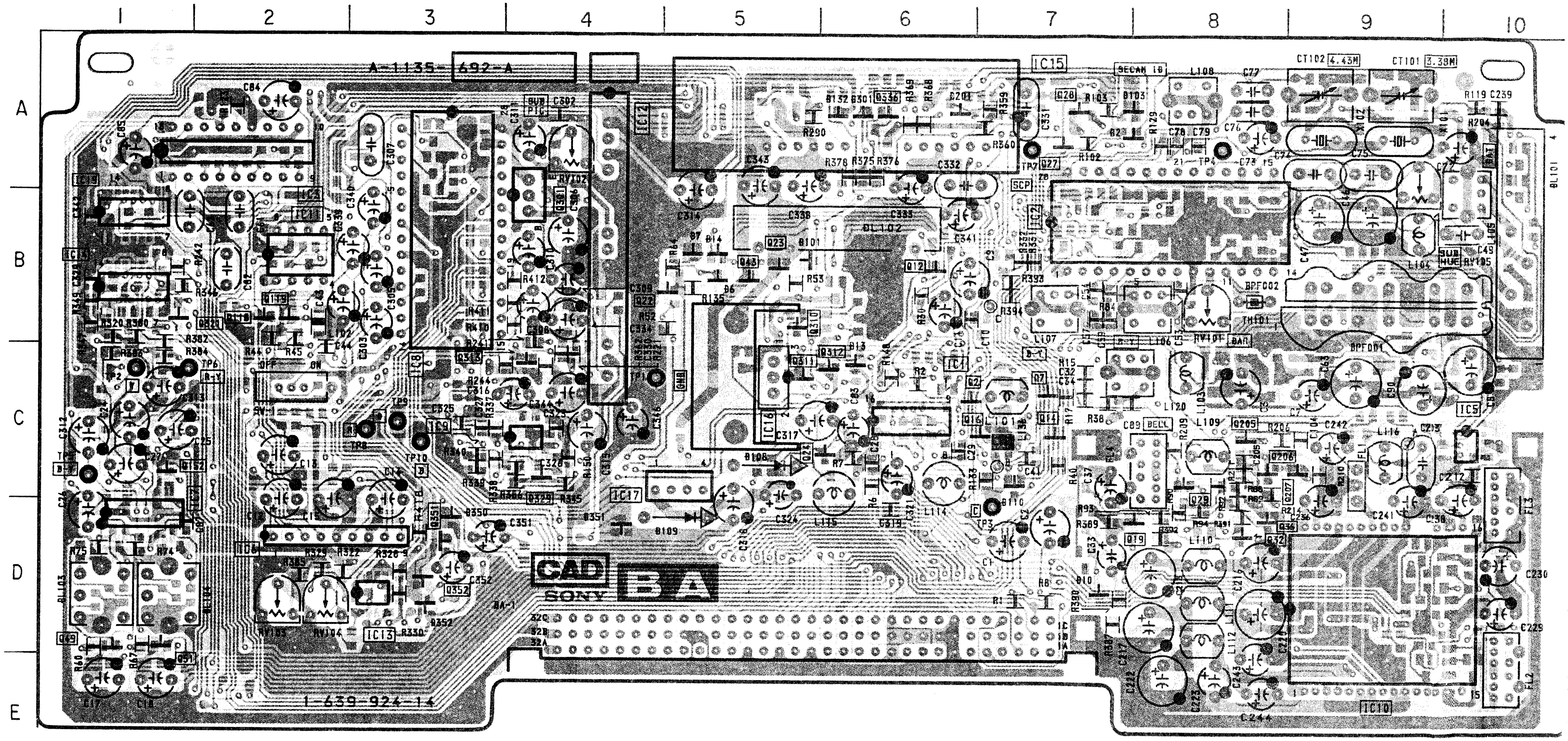
IC	
IC1	C-6
IC2	B-7
IC3	A-2
IC5	C-10
IC6	D-2
IC7	D-1
IC8	B-3
IC9	C-4
IC10	D-9
IC11	B-2
IC12	A-4
IC13	D-3
IC14	B-1
IC15	A-7
IC16	C-5
IC17	C-5
IC19	B-1

TRANSISTOR	
Q2	C-6
Q7	C-7
Q12	B-6
Q14	C-7
Q16	C-7
Q19	D-8
Q22	B-5
Q23	B-5
Q24	C-6
Q27	A-7
Q28	A-7
Q29	C-8
Q32	D-8
Q36	D-8
Q43	B-5
Q49	D-1
Q51	D-1
Q118	B-2
Q119	B-2
Q152	C-1
Q205	C-8
Q206	C-8
Q207	C-8
Q301	B-4
Q310	B-5
Q311	C-5
Q312	C-6
Q313	C-3
Q321	B-2
Q329	C-4
Q336	A-6
Q351	D-3
Q352	D-3

DIODE	
D2	A-8
D6	B-5
D7	B-5
D10	D-7
D13	C-6
D14	B-5
D101	B-5
D103	A-8
D108	C-5
D109	D-5
D110	C-7
D132	A-6
D201	A-6
D301	A-6
D350	D-3
D351	D-4
D352	D-3

VARIABLE RESISTOR	
CT101	A-9
CT102	A-9
RV101	B-8
RV102	A-4
RV103	D-2
RV104	D-2
RV105	B-10

– BA BOARD – <Component Side>


1
2
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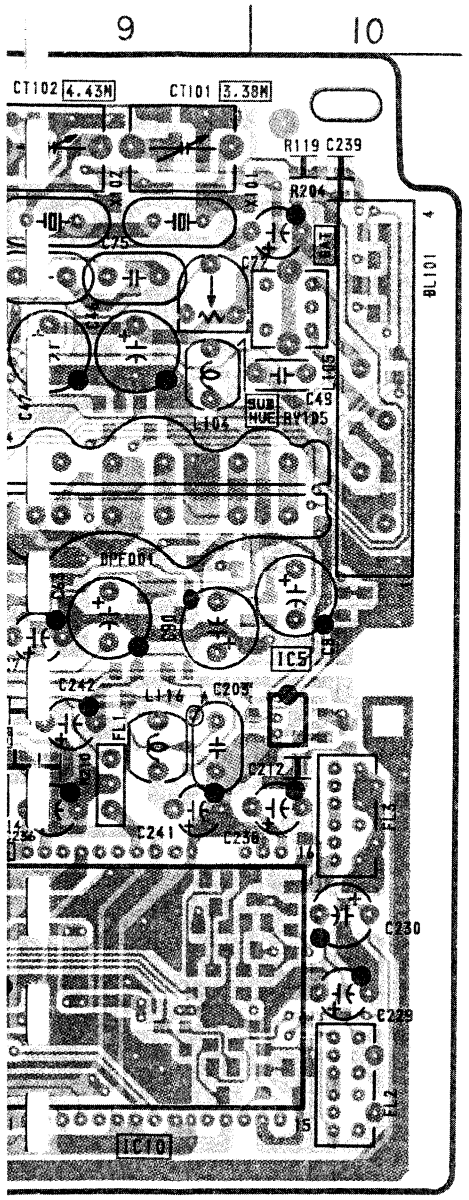
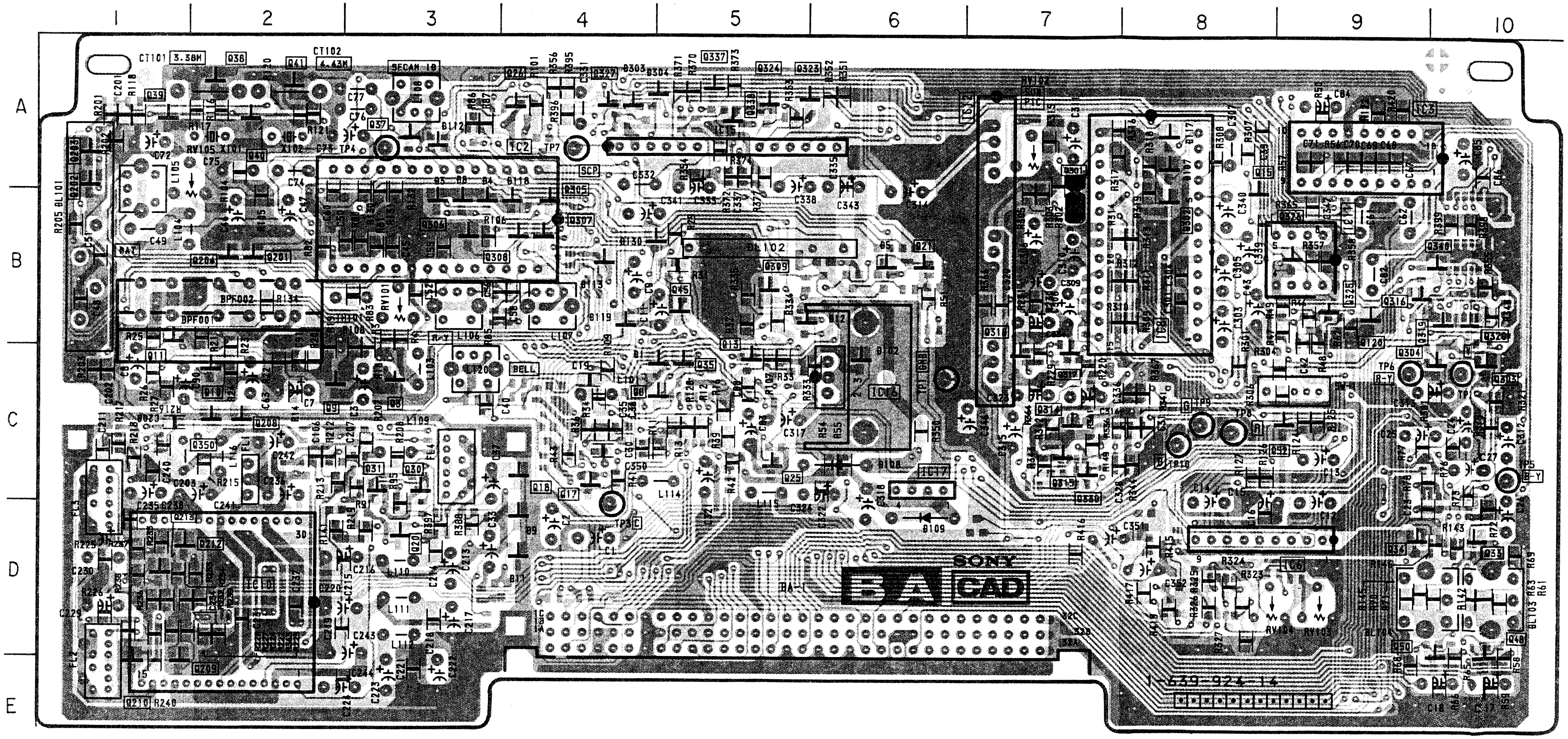
6
7
8
9
10
A
B
C
D
E
A-1135-692-A
1-639-924-14
CAD
SONY
BA
IC15
SECAM
CT102 4.43M
CT101 3.58M
IC12
IC17
IC16
IC13
IC10
IC5
RV103
RV104
RV101
RV102
RV105
BPF001
BPF002
TP3
TP4
TP7

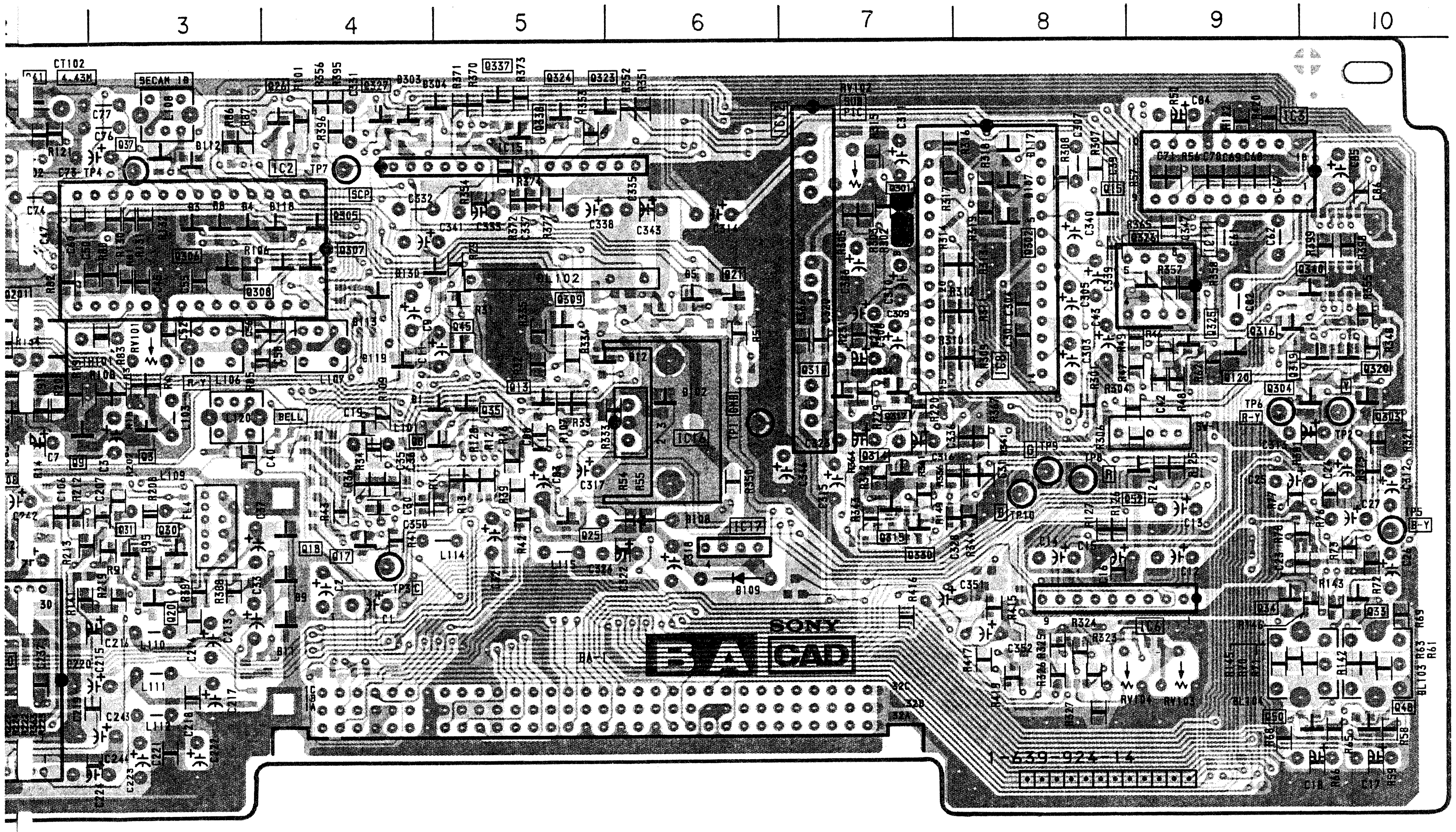
<Conductor Side>


9
10
CT102 4.43M
CT101 3.38M
BL101
IC5
IC10


1
2
3
4
5
6
7
8
9
10
A
B
C
D
E
CT101 3.38M
CT102 4.43M
SECAM ID
BL102
IC2
IC6
IC7
IC16
TP1
TP2
TP3
TP4
TP5
TP6
TP7
TP8
TP9
TP10
SCP
BELL
SONY
BA
CAD
1-639-924-14

- ░ : Pattern from the side which enables seeing.
- ▓ : Pattern of the rear side.

BA BOARD
(CONDUCTOR SIDE)


3
4
5
6
7
8
9
10
CT102
SECAM
TP4
TP7
SCP
BL102
TP1
TP6
TP2
R-Y
B-Y
TP8
TP9
TP10
BELL
SONY
BA
CAD
RV102
RV103
RV104
IC17
1-639-924-14

IC	
IC2	B-3
IC3	A-9
IC6	D-9
IC8	B-8
IC10	D-2
IC11	B-9
IC12	B-7
IC15	A-5
IC16	C-6
IC17	C-6

TRANSISTOR	
Q3	C-3
Q8	C-4
Q9	C-2
Q10	C-2
Q11	B-1
Q13	C-5
Q15	B-8
Q17	C-4
Q18	C-4
Q20	D-3
Q21	B-6
Q25	C-5
Q26	A-4
Q30	C-3
Q31	C-3
Q33	D-10
Q34	D-9
Q35	C-5
Q37	A-3
Q38	A-2
Q39	A-1
Q40	A-2
Q41	A-2
Q45	B-5
Q48	D-10
Q50	D-10
Q52	C-9
Q120	B-9
Q201	B-2
Q202	A-1
Q203	A-1
Q204	B-2
Q208	C-2
Q209	E-1
Q210	E-1
Q212	D-2
Q213	D-1
Q301	B-7
Q302	B-8
Q303	C-10
Q304	C-10
Q305	B-4
Q306	B-3
Q307	B-4
Q308	B-4
Q309	B-5
Q314	C-7
Q315	C-7
Q316	B-9
Q317	C-7
Q318	C-7
Q319	B-10
Q320	B-10
Q323	A-5
Q324	A-5
Q325	B-9
Q326	B-9
Q327	A-4
Q330	C-7
Q337	A-5
Q338	A-5
Q340	B-10
Q350	C-2

DIODE	
D1	C-5
D3	B-3
D4	B-3
D5	B-6
D8	B-3
D9	D-4
D11	D-4
D12	B-5
D102	C-6
D107	A-8
D108	C-6
D109	D-6
D112	A-3
D113	B-4
D118	B-4
D119	B-4
D130	B-4
D303	A-4
D304	A-5

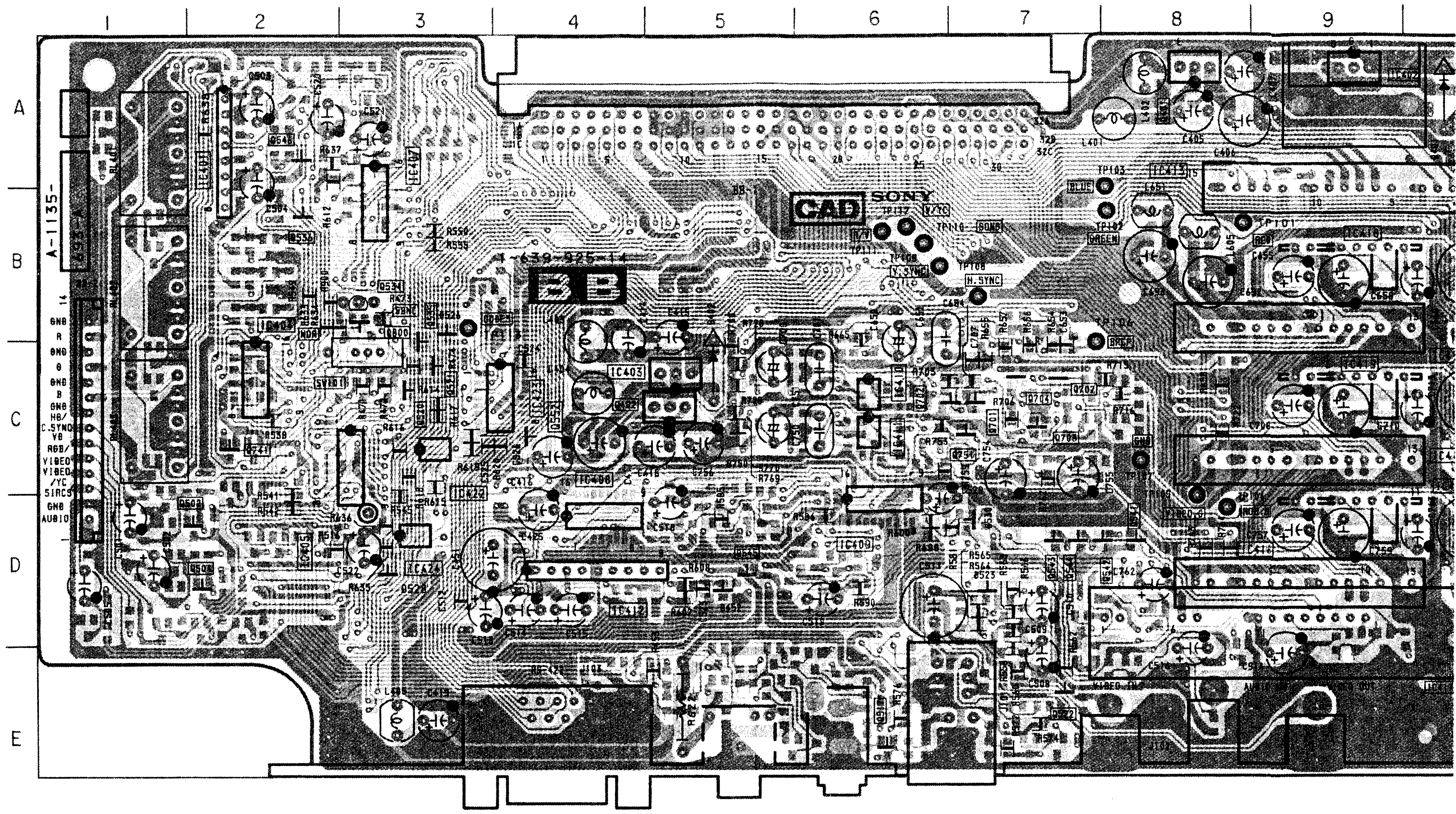
VARIABLE RESISTOR	
CT101	A-1
CT102	A-2
RV101	B-3
RV102	A-7
RV103	D-9
RV104	D-9
RV105	B-2

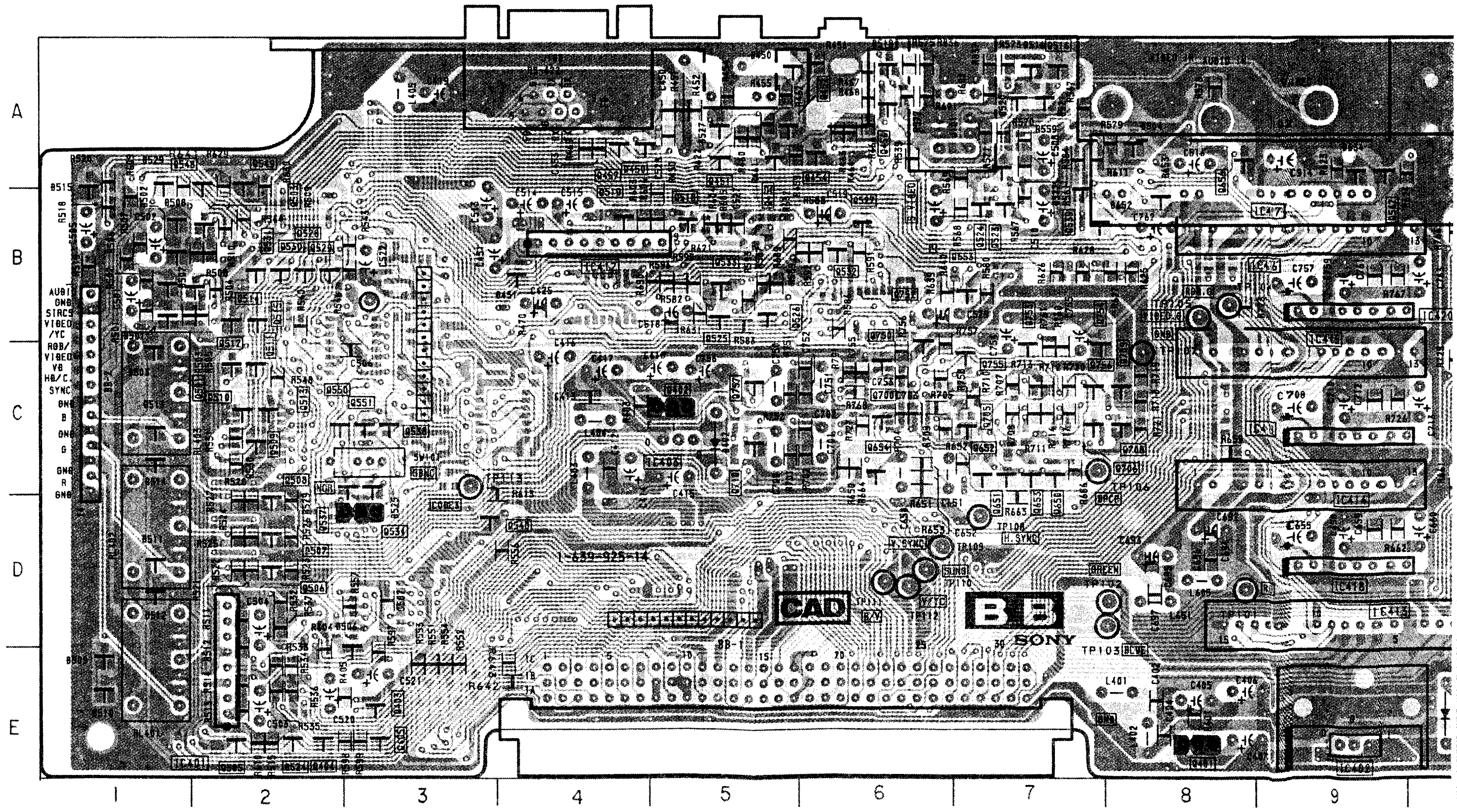
- ░ : Pattern from the side which enables seeing.
- ▒ : Pattern of the rear side.

BB BOARD
(COMPONENT SIDE)

IC	
IC401	A-2
IC402	A-9
IC403	C-5
IC404	C-2
IC405	D-2
IC407	B-3
IC408	D-4
IC409	D-6
IC410	C-6
IC411	C-6
IC412	D-4
IC413	B-9
IC414	B-9
IC415	C-9
IC416	D-9
IC418	B-9
IC419	C-9
IC420	D-9
IC422	C-3
IC423	C-4
IC424	D-3
TRANSISTOR	
Q401	A-8
Q402	C-4
Q502	D-2
Q504	D-2
Q517	E-6
Q520	C-3
Q521	C-3
Q522	E-7
Q534	B-3
Q535	B-3
Q536	B-2
Q541	D-8
Q542	D-8
Q543	D-7
Q544	D-7
Q545	D-5
Q546	A-2
Q552	C-4
Q701	C-7
Q702	C-7
Q703	C-7
Q704	C-7
Q707	C-7
Q741	C-2
Q751	C-7
Q800	B-3
DIODE	
D401	A-10
D402	C-5
D452	D-5
D523	D-7
D526	B-3
D528	D-3
D530	D-7

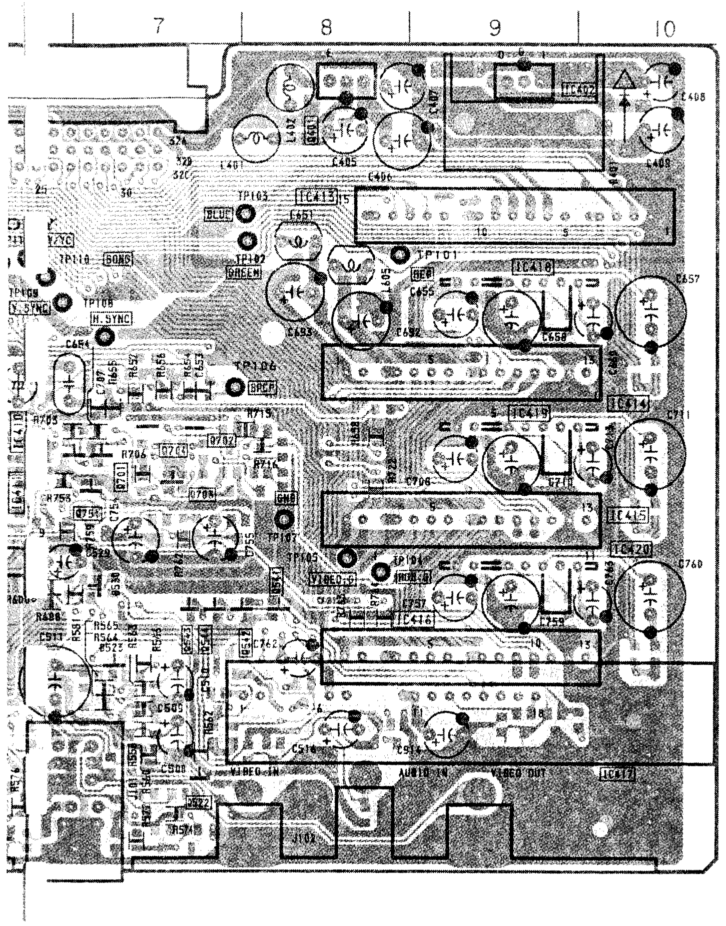
– BB BOARD – **<Component Side>**

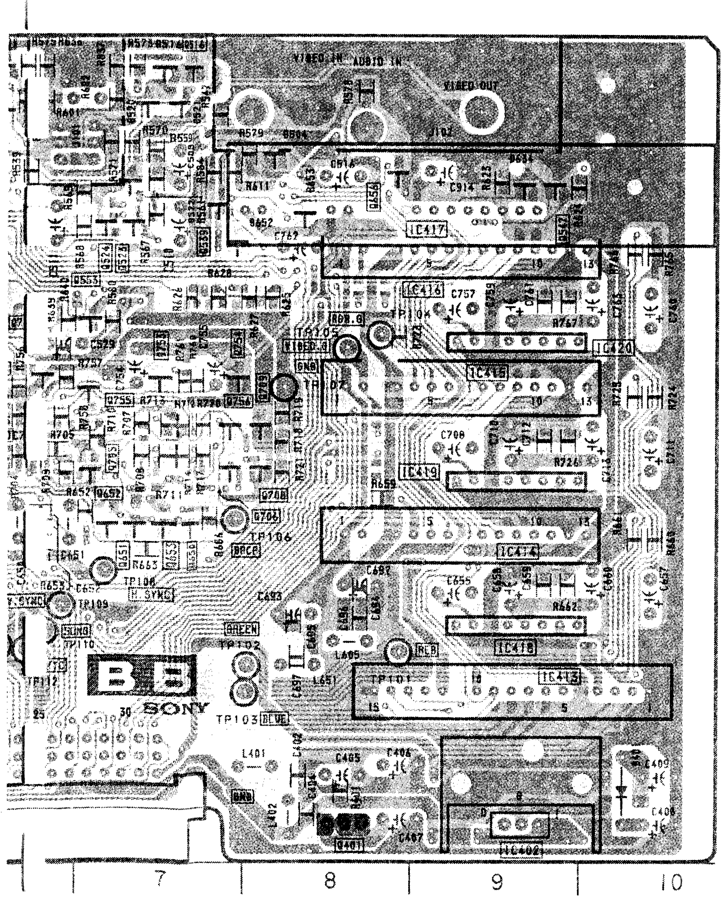

1
2
3
4
5
6
7
8
9
A
B
C
D
E
BB
CAD
SONY
1-439-925-14
A-1135-
IC401
IC403
IC406
IC408
IC409
IC412
IC416
IC418
TP101
TP102
TP103
TP106
TP108
H.SYNC
GREEN
BLUE
L401
C405
C406


A
B
C
D
E
1
2
3
4
5
6
7
8
9
BB
CAD
SONY
1-439-925-14
TP103
TP106
H.SYNC
GREEN
L401
C405
C521
C708
C757
IC416
IC418

BB

[SIGNAL SELECT, R.G.B PRE AMP]


7
8
9
10
IC413
IC418
IC419
IC414
IC415
IC420
IC416
TP101
TP103
TP106
VIDEO IN
AUDIO IN
VIDEO OUT


7
8
9
10
VIDEO IN
AUDIO IN
VIDEO OUT
IC417
IC416
IC420
IC418
IC419
IC414
IC413
IC402
TP101
TP103
TP106
BB
SONY

BB BOARD (CONDUCTOR SIDE)

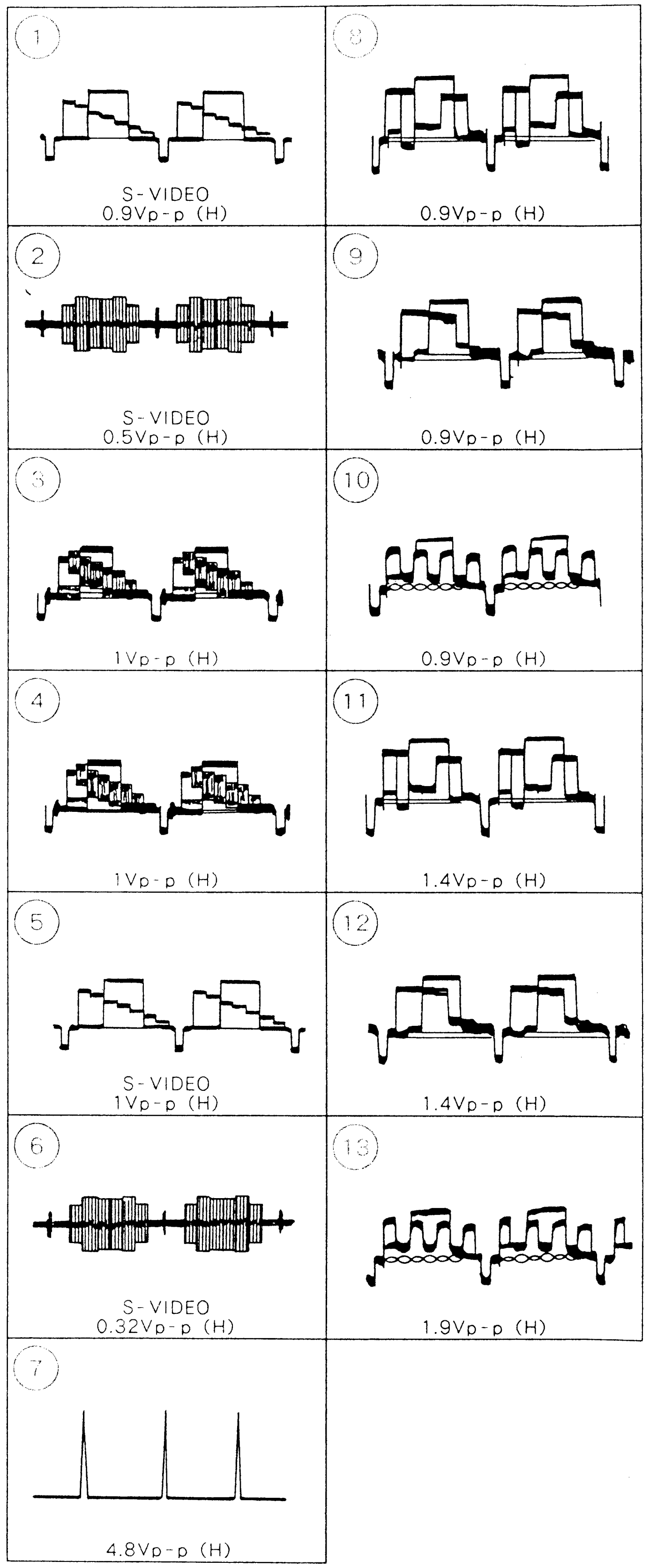
IC	
IC401	E-2
IC402	E-9
IC403	C-5
IC412	B-4
IC413	D-9
IC414	D-9
IC415	C-9
IC416	B-9
IC417	B-9
IC418	D-9
IC419	C-9
IC420	B-9

TRANSISTOR	
Q401	E-8
Q402	C-5
Q403	E-3
Q404	E-2
Q405	E-3
Q450	A-4
Q451	A-5
Q452	A-5
Q453	A-5
Q454	A-6
Q456	A-6
Q457	A-4
Q501	C-2
Q503	B-2
Q506	D-2
Q507	D-2
Q508	D-2
Q509	C-2
Q510	C-2
Q511	C-2
Q512	C-2
Q513	C-3
Q514	B-2
Q515	B-2
Q516	A-7
Q518	B-5
Q519	B-4
Q523	B-7
Q524	B-7
Q525	B-5
Q526	B-5
Q527	B-6
Q528	B-2
Q529	B-2
Q530	B-2
Q531	B-2
Q532	B-6
Q533	B-5
Q534	D-3
Q537	C-3
Q538	C-3
Q539	B-7
Q540	D-3
Q547	B-9
Q548	A-2
Q549	A-2
Q550	C-2
Q551	C-3
Q553	B-6
Q650	C-7
Q651	C-7
Q652	C-7
Q653	C-7
Q654	C-6
Q656	A-8
Q700	C-6
Q705	C-7
Q706	C-7
Q708	C-8
Q709	C-8
Q710	C-5
Q750	C-6
Q752	C-6
Q753	C-7
Q754	C-7
Q755	C-7
Q756	C-7
Q757	C-5

DIODE	
D401	E-10
D402	C-5
D450	A-5
D451	B-4
D501	B-1
D502	B-1
D503	C-1
D504	A-8
D505	?-?
D506	E-3
D507	B-1
D508	B-1
D509	E-1
D510	E-1
D511	D-1
D512	D-1
D513	C-1
D514	C-1
D515	B-1
D516	A-7
D518	A-6
D520	A-7
D521	A-7
D522	A-7
D524	E-2
D525	D-3
D527	A-5
D529	A-1
D634	A-9
D652	A-7
D653	B-8

- ░ : Pattern from the side which enables seeing.
- ▒ : Pattern of the rear side.

BB BAORD



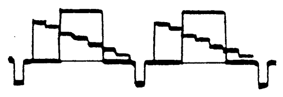
BB BOARD

REF.	Pin. No.	NTSC 3.58	S-VIDEO
IC404	②	0.1	1.6
	④	0.5	1.4
	⑤	0.1	1.4
	⑫	1.4	0.1
	⑭	1.8	0.5
	⑮	0.5	2
IC405	⑥	4.5	0
	⑦	4.8	0
IC408	③	4.5	0
	④	4.5	0
	⑩	4.6	4.8
	⑪	4.5	4.6
IC414	②	0.6	3.1
	⑪	−0.2	2.2
IC415	②	0.6	3.1
	⑪	−0.2	2.2
IC416	②	0.7	3.1
	⑪	−0.2	2.3
IC423	②	4.9	0

RE
Q50
Q51
Q51
Q52
Q52
Q53
Q53
Q53
Q65

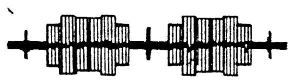
BB BAORD

①



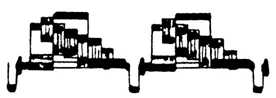
S-VIDEO
0.9Vp-p (H)

②



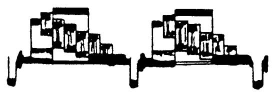
S-VIDEO
0.5Vp-p (H)

③



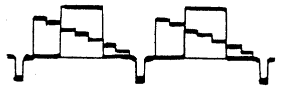
1Vp-p (H)

④



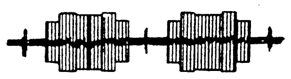
1Vp-p (H)

⑤



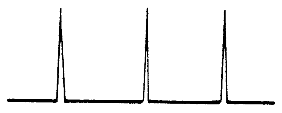
S-VIDEO
1Vp-p (H)

⑥



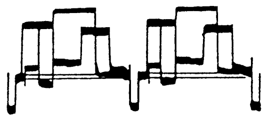
S-VIDEO
0.32Vp-p (H)

⑦



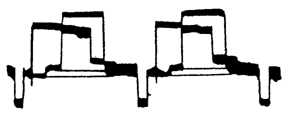
4.8Vp-p (H)

⑧



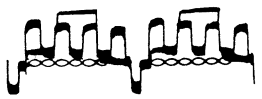
0.9Vp-p (H)

⑨



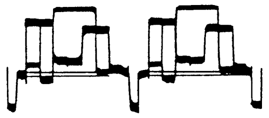
0.9Vp-p (H)

⑩



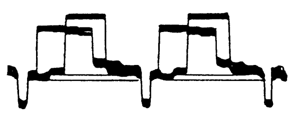
0.9Vp-p (H)

⑪



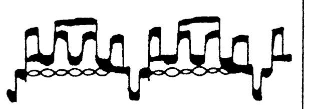
1.4Vp-p (H)

⑫



1.4Vp-p (H)

⑬

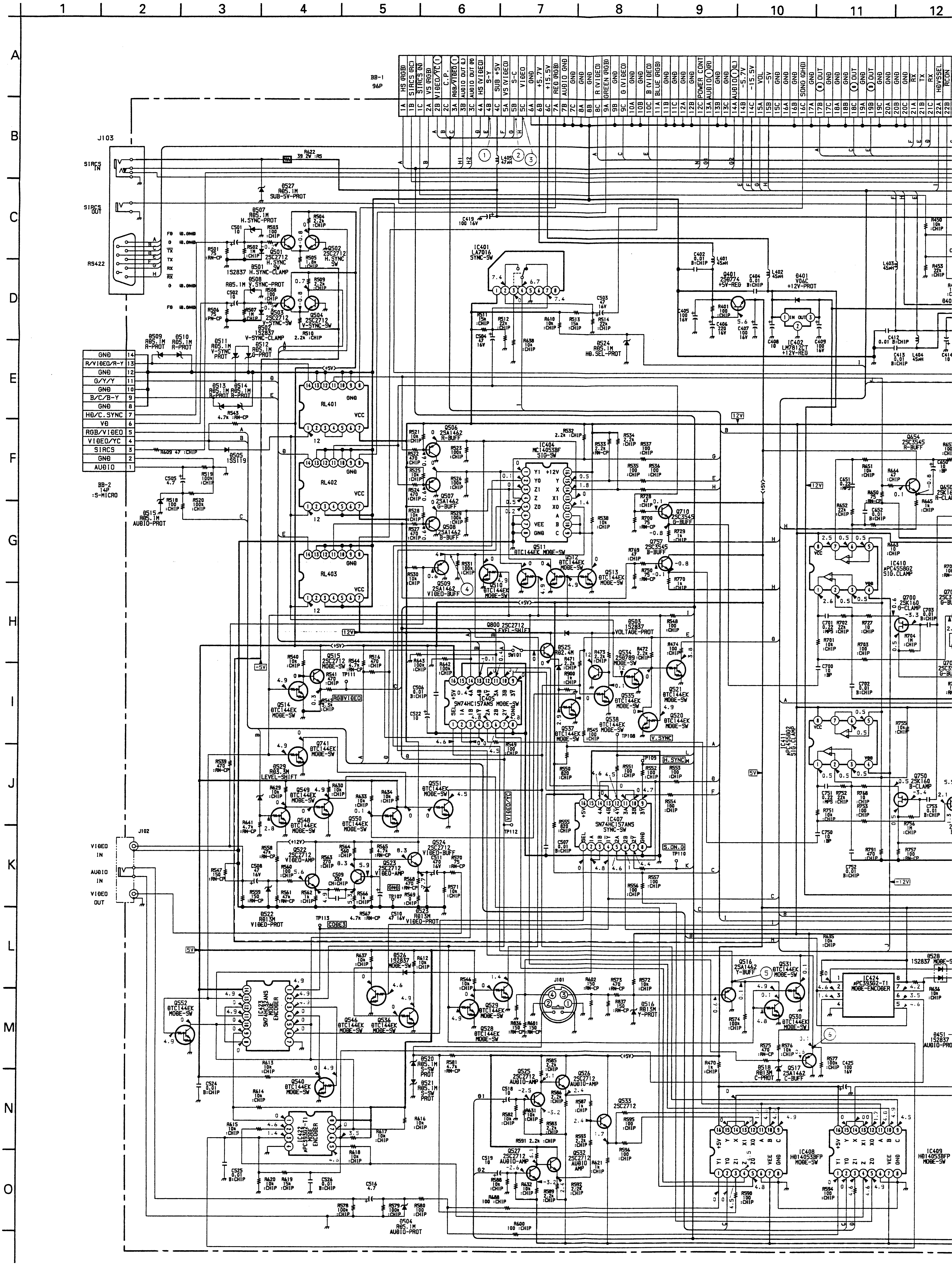


1.9Vp-p (H)

BB BOARD

REF.	Pin. No.	NTSC 3.58	S-VIDEO
IC404	②	0.1	1.6
	④	0.5	1.4
	⑤	0.1	1.4
	⑫	1.4	0.1
	⑭	1.8	0.5
	⑮	0.5	2
IC405	⑥	4.5	0
	⑦	4.8	0
IC408	③	4.5	0
	④	4.5	0
	⑩	4.6	4.8
	⑪	4.5	4.6
IC414	②	0.6	3.1
	⑪	−0.2	2.2
IC415	②	0.6	3.1
	⑪	−0.2	2.2
IC416	②	0.7	3.1
	⑪	−0.2	2.3
IC423	②	4.9	0

REF.		NTSC 3.58	S-VIDEO
Q509	B	0.6	0.6
	C	–	–
	E	1.4	0
Q516	B	0.6	0.6
	C	0.1	1.6
	E	–	–
Q517	B	0.6	0.6
	C	0.1	1.4
	E	–	–
Q528	B	4.9	0
	C	0	4.1
	E	–	–
Q529	B	0	1.4
	C	4.1	0
	E	–	–
Q530	B	4.9	0
	C	0.1	1.6
	E	–	–
Q531	B	4.9	0
	C	0.1	1.4
	E	–	–
Q539	B	3.6	2.4
	C	4.2	1.9
	E	–	–
Q656	B	0	4.9
	C	4.1	0
	E	–	–


BB-1
96P
J103
SIRCS IN
SIRCS OUT
RS422
J102
VIDEO IN
AUDIO IN
VIDEO OUT
BB-2
14P
:S-MICRO
GND
R/VIDEO/R-Y
G/Y/Y
B/C/B-Y
HD/C.SYNC
VD
RGB/VIDEO
VIDEO/YC
SIRCS
AUDIO
RL401
RL402
RL403
IC401
LA7016
SYNC-SW
IC402
LM7812CT
+12V-REG
IC404
MC14053BF
SIG-SW
IC405
SN74HC157ANS MODE-SW
IC407
SN74HC157ANS
SYNC-SW
IC408
HD14053BFP
MODE-SW
IC409
HD14053BFP
MODE-SW
IC410
μPC4558G2
SIG.CLAMP
IC411
μPC4558G2
SIG.CLAMP
IC422
μPC3956Z-T1
MODE ENCODER
IC423
SN74HC138ANS
MODE ENCODER
IC424
μPC3956Z-T1
MODE-ENCODER
Q401
2SD774
+5V-REG
D401
VD6C
+12V-PROT
Q501
2SC2712
H.SYNC SW
Q502
2SC2712
H.SYNC SW
Q503
2SC2712
V-SYNC-SW
Q504
2SC2712
V-SYNC-SW
Q506
2SA1462
R-BUFF
Q507
2SA1462
G-BUFF
Q508
2SA1462
B-BUFF
Q509
2SA1462
VIDEO-BUFF
Q510
DTC144EK
MODE-SW
Q511
DTC144EK MODE-SW
Q512
DTC144EK
MODE-SW
Q513
DTC144EK
MODE-SW
Q514
DTC144EK
MODE-SW
Q515
2SC2712
MODE-SW
Q516
2SA1462
Y-BUFF
Q517
2SA1462
C-BUFF
Q520
DTC144EK
MODE-SW
Q521
DTC144EK
MODE-SW
Q522
2SC2712
VIDEO-AMP
Q523
2SC2712
VIDEO-AMP
Q524
2SC2712
VIDEO-BUFF
Q525
2SC2712
AUDIO-AMP
Q526
2SC2712
AUDIO-AMP
Q527
2SC2712
AUDIO-AMP
Q528
DTC144EK
MODE-SW
Q529
DTC144EK
Q530
DTC144EK
MODE-SW
Q531
DTC144EK
MODE-SW
Q532
2SC2712
AUDIO AMP
Q533
2SC2712
Q534
2SD789
MODE-SW
Q535
DTC144EK
MODE-SW
Q536
DTC144EK
MODE-SW
Q537
DTC144EK
MODE-SW
Q538
DTC144EK
MODE-SW
Q540
DTC144EK
MODE-SW
Q541
DTC144EK
MODE-SW
Q546
DTC144EK
MODE-SW
Q548
DTC144EK
MODE-SW
Q549
DTC144EK
MODE-SW
Q550
DTC144EK
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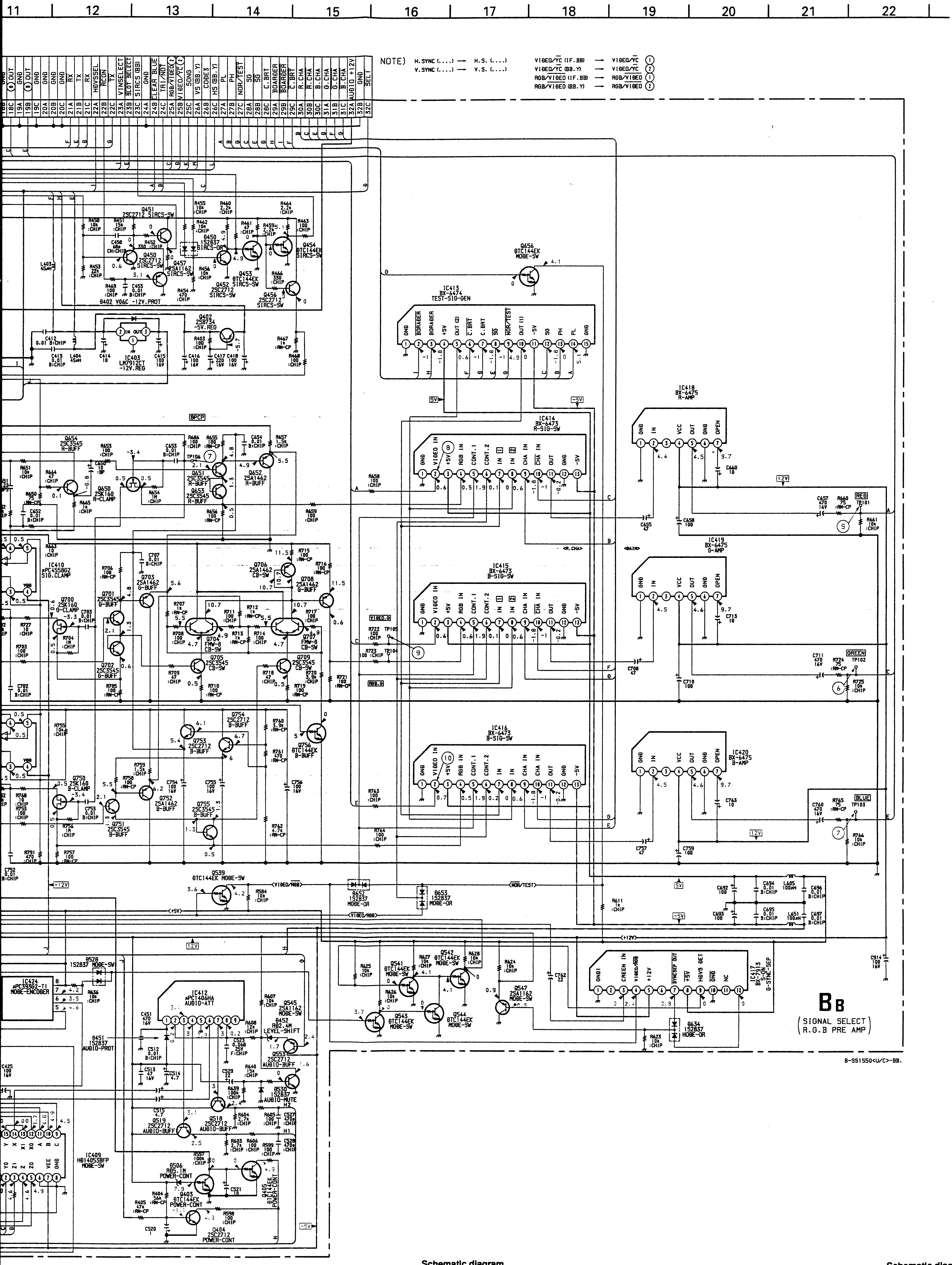
Q551
DTC144EK
MODE-SW
Q552
DTC144EK
MODE-SW
Q654
2SC3545
R-BUFF
Q700
2SK160
G-CLAMP
Q710
2SC3545
G-BUFF
Q750
2SK160
B-CLAMP
Q757
2SC3545
B-BUFF
Q800 2SC2712
LEVEL-SHIFT
D501
1S2837 H.SYNC-CLAMP
D502
1S2837
V-SYNC-CLAMP
D503
1S2837
VOLTAGE-PROT
D504
RD5.1M
AUDIO-PROT
D505
1SS119
D507
RD5.1M
H.SYNC-PROT
D508
RD5.1M V.SYNC-PROT
D509
RD5.1M
R-PROT
D510
RD5.1M
R-PROT
D511
RD5.1M
V-SYNC
PROT
D512
RD5.1M
G-PROT
D513
RD5.1M
R-PROT
D514
RD5.1M
B-PROT
D515
RD5.1M
AUDIO-PROT
D516
RD13M
Y-PROT
D518
RD13M
C-PROT
D520
RD5.1M
S-5V
PROT
D521
RD5.1M
S-5V
PROT
D522
RD13M
VIDEO-PROT
D523
RD13M
VIDEO-PROT
D524
RD5.1M
HD.SEL-PROT
D525
RD2.4M
D526
1S2837
MODE-SW
D527
RD5.1M
SUB-5V-PROT
D528
1S2837
D529
RD3.3M
LEVEL-SHIFT
J101
SW101
TP107
TP108
TP109
TP110
TP111
TP112
TP113
RGB/VIDEO
VIDEO/YC
H.SYNC
V.SYNC
S.ON.G
COBE3
GND
12V
5V
-5V
-12V
+5V
+12V


11
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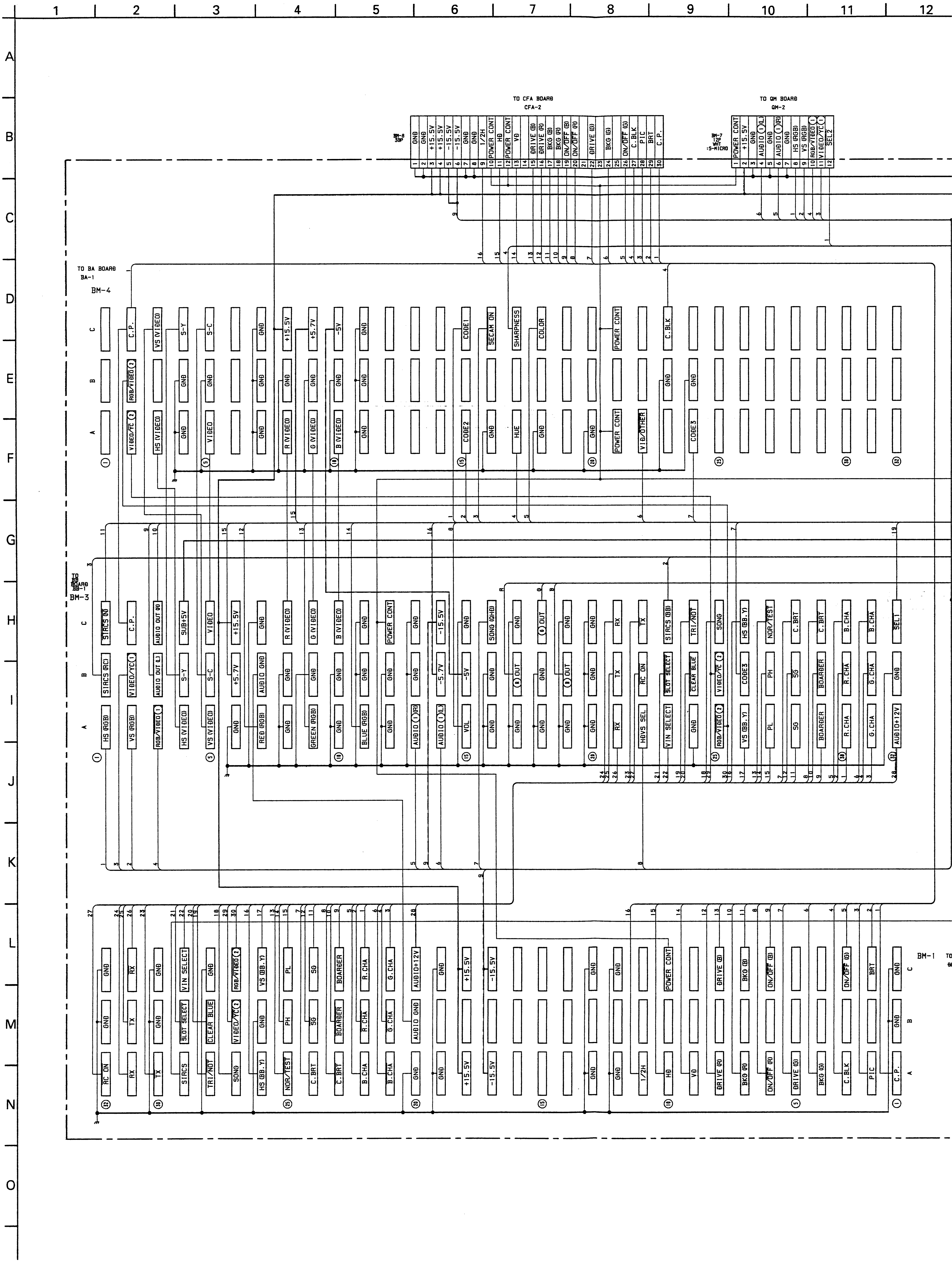
21
22
NOTE) H.SYNC (....) — H.S. (....)
V.SYNC (....) — V.S. (....)
VIDEO/YC (IF.BB) — VIDEO/YC ①
VIDEO/YC (BB.Y) — VIDEO/YC ②
RGB/VIDEO (IF.BB) — RGB/VIDEO ①
RGB/VIDEO (BB.Y) — RGB/VIDEO ②
Q451 2SC2712 SIRCS-SW
Q450 2SC2712 SIRCS-SW
Q457 2SA1162 SIRCS-SW
D450 1S2837 SIRCS-OR
Q453 DTC144EK SIRCS-SW
Q452 2SC2712 SIRCS-SW
Q454 DTC144EK SIRCS-SW
Q456 2SC2712 SIRCS-SW
D402 V06C -12V.PROT
Q402 2SB734 -5V.REG
IC403 LM7912CT -12V.REG
Q656 DTC144EK MODE-SW
IC413 BX-6474 TEST-SIG-GEN
IC414 BX-6473 R-SIG-SW
IC415 BX-6473 B-SIG-SW
IC416 BX-6473 B-SIG-SW
IC418 BX-6475 R-AMP
IC419 BX-6475 G-AMP
IC420 BX-6475 B-AMP
Q654 2SC3545 R-BUFF
Q650 2SK160 R-CLAMP
Q651 2SC3545 R-BUFF
Q652 2SA1462 R-BUFF
Q653 2SC3545 R-BUFF
IC410 μPC4558G2 SIG.CLAMP
Q700 2SK160 G-CLAMP
Q701 2SC3545 G-BUFF
Q702 2SC3545 G-BUFF
Q703 2SA1462 G-BUFF
Q704 FMW-8 CB-SW
Q705 2SC3545 CB-SW
Q706 2SA1462 CB-SW
Q707 FMW-8 CB-SW
Q708 2SA1462 G-BUFF
Q709 2SC3545 CB-SW
Q750 2SK160 B-CLAMP
Q751 2SC3545 B-BUFF
Q752 2SA1462 B-BUFF
Q753 2SC2712 B-BUFF
Q754 2SC2712 B-BUFF
Q755 2SC3545 B-BUFF
Q756 DTC144EK B-BUFF
Q539 DTC144EK MODE-SW
D652 1S2837 MODE-OR
D653 1S2837 MODE-OR
RED TP101
GREEN TP102
BLUE TP103
IC424 μPC39362-T1 MODE-ENCODER
D528 1S2837 MODE-SW
D451 1S2837 AUDIO-PROT
IC412 μPC1406HA AUDIO-ATT
Q545 2SA1162 MODE-SW
D452 RD2.4M LEVEL-SHIFT
Q553 2SC2712 AUDIO-BUFF
D530 1S2837 AUDIO-MUTE
Q519 2SC2712 AUDIO-BUFF
Q518 2SC2712 AUDIO-BUFF
IC409 HD14053BFP MODE-SW
D506 RD5.1M POWER-CONT
Q403 DTC144EK POWER-CONT
Q405 DTC144EK POWER-CONT
Q404 2SC2712 POWER-CONT
Q541 DTC144EK MODE-SW
Q542 DTC144EK MODE-SW
Q543 DTC144EK MODE-SW
Q544 DTC144EK MODE-SW
Q547 2SA1162 MODE-SW
IC417 BX-7513 S-ON G-SYNC-SEP
D634 1S2837 MODE-OR
BB
(SIGNAL SELECT R.G.B PRE AMP)
B-SS1550<U/C>-BB.


1
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9
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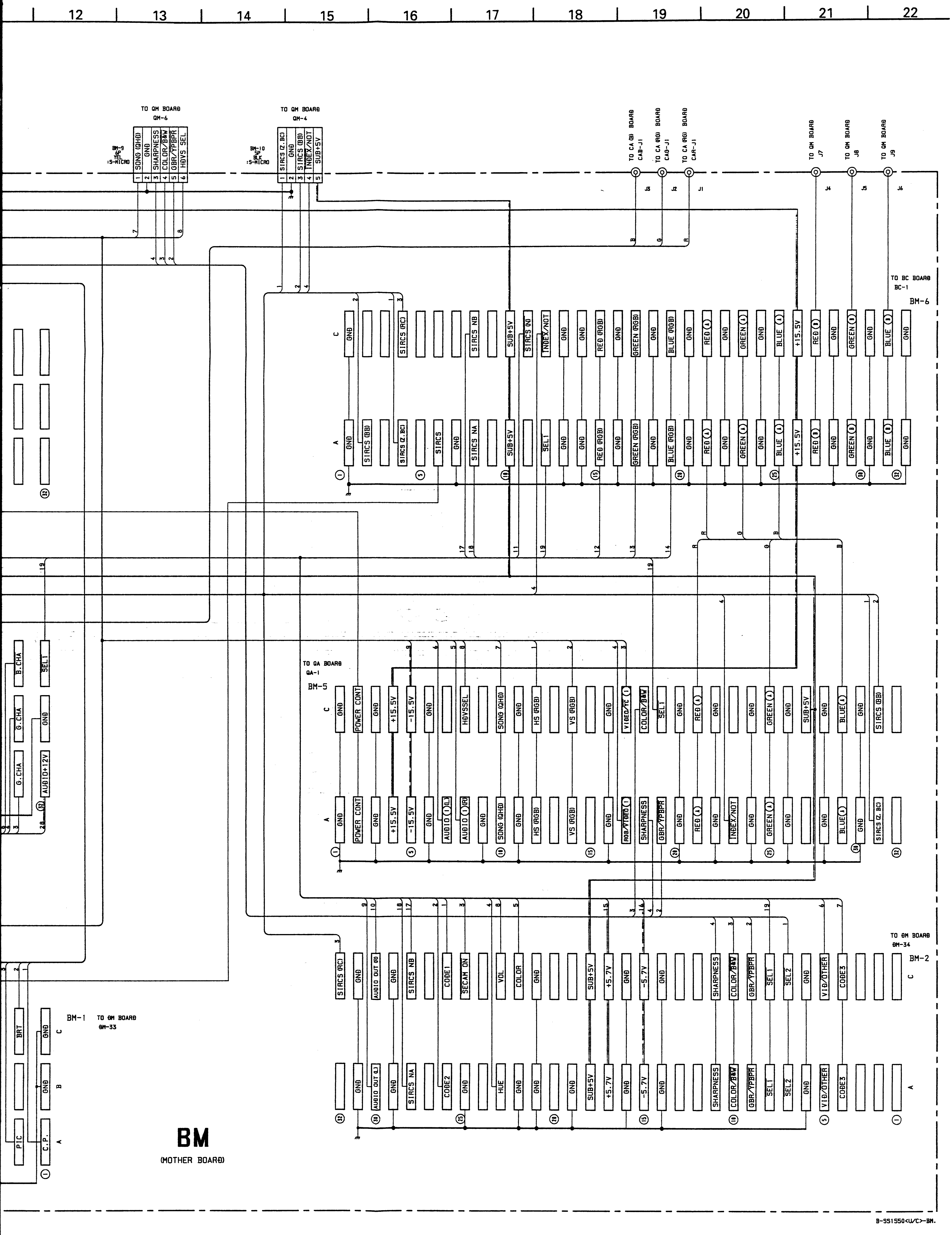
11
12
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
TO CFA BOARD
CFA-2
BM-8
30P
GND
GND
+15.5V
+15.5V
-15.5V
-15.5V
GND
GND
1/2H
POWER CONT
HD
POWER CONT
VD
DRIVE (B)
DRIVE (R)
BKG (B)
BKG (R)
ON/OFF (B)
ON/OFF (R)
DRIVE (G)
BKG (G)
ON/OFF (G)
C.BLK
PIC
BRT
C.P.
TO QM BOARD
QM-2
BM-7
12P
WHT
:S-MICRO
POWER CONT
+15.5V
GND
AUDIO (1)(L)
GND
AUDIO (1)(R)
GND
HS (RGB)
VS (RGB)
RGB/VIDEO (1)
VIDEO/YC (1)
SEL2
TO BA BOARD
BA-1
BM-4
C.P.
VS (VIDEO)
S-Y
S-C
GND
+15.5V
+5.7V
-5V
GND
CODE1
SECAM ON
SHARPNESS
COLOR
POWER CONT
C.BLK
RGB/VIDEO (2)
VIDEO/YC (2)
HS (VIDEO)
VIDEO
R (VIDEO)
G (VIDEO)
B (VIDEO)
CODE2
HUE
VID/OTHER
CODE3
TO BB BOARD
BB-1
BM-3
SIRCS (N)
SIRCS (RC)
HS (RGB)
VIDEO/YC (1)
VS (RGB)
AUDIO OUT (R)
AUDIO OUT (L)
RGB/VIDEO (1)
SUB+5V
HS (VIDEO)
VS (VIDEO)
RED (RGB)
AUDIO GND
GREEN (RGB)
BLUE (RGB)
AUDIO (1)(R)
AUDIO (1)(L)
-15.5V
-5.7V
VOL
SONG (HD)
(R) OUT
(G) OUT
(B) OUT
RX
TX
RC ON
HDVS SEL
SIRCS (BB)
SLOT SELECT
VIN SELECT
TRI/NOT
CLEAR BLUE
SONG
HS (BB.Y)
VS (BB.Y)
CODE3
NOR/TEST
PH
PL
C.BRT
SG
BOARDER
B.CHA
R.CHA
G.CHA
SEL1
AUDIO+12V
RC ON
SIRCS
VIDEO/YC (2)
RGB/VIDEO (2)
AUDIO GND
1/2H
HD
VD
DRIVE (R)
DRIVE (B)
BKG (R)
BKG (B)
ON/OFF (R)
ON/OFF (B)
DRIVE (G)
BKG (G)
ON/OFF (G)
C.BLK
PIC
BRT
C.P.
BM-1


12
13
14
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16
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18
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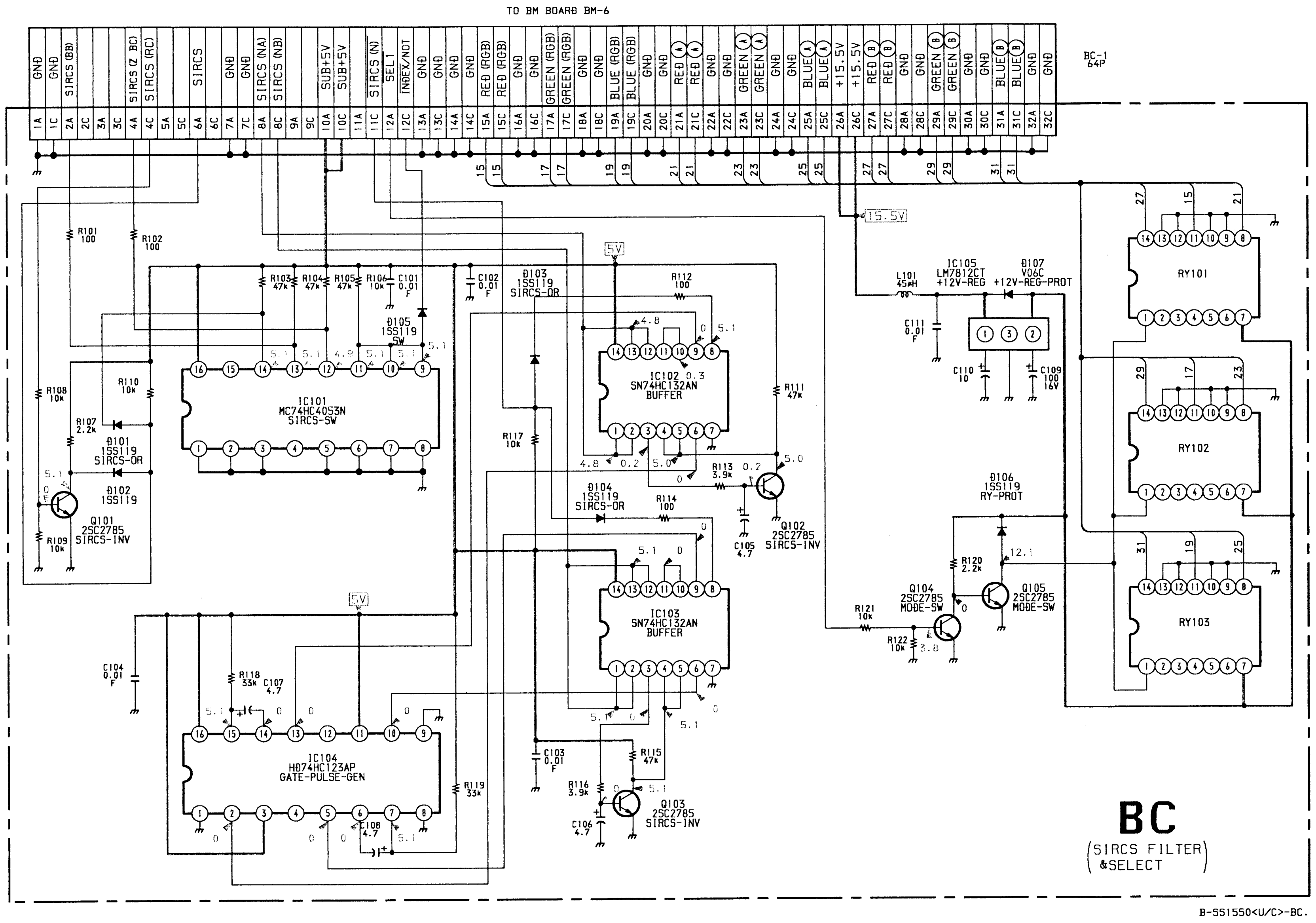
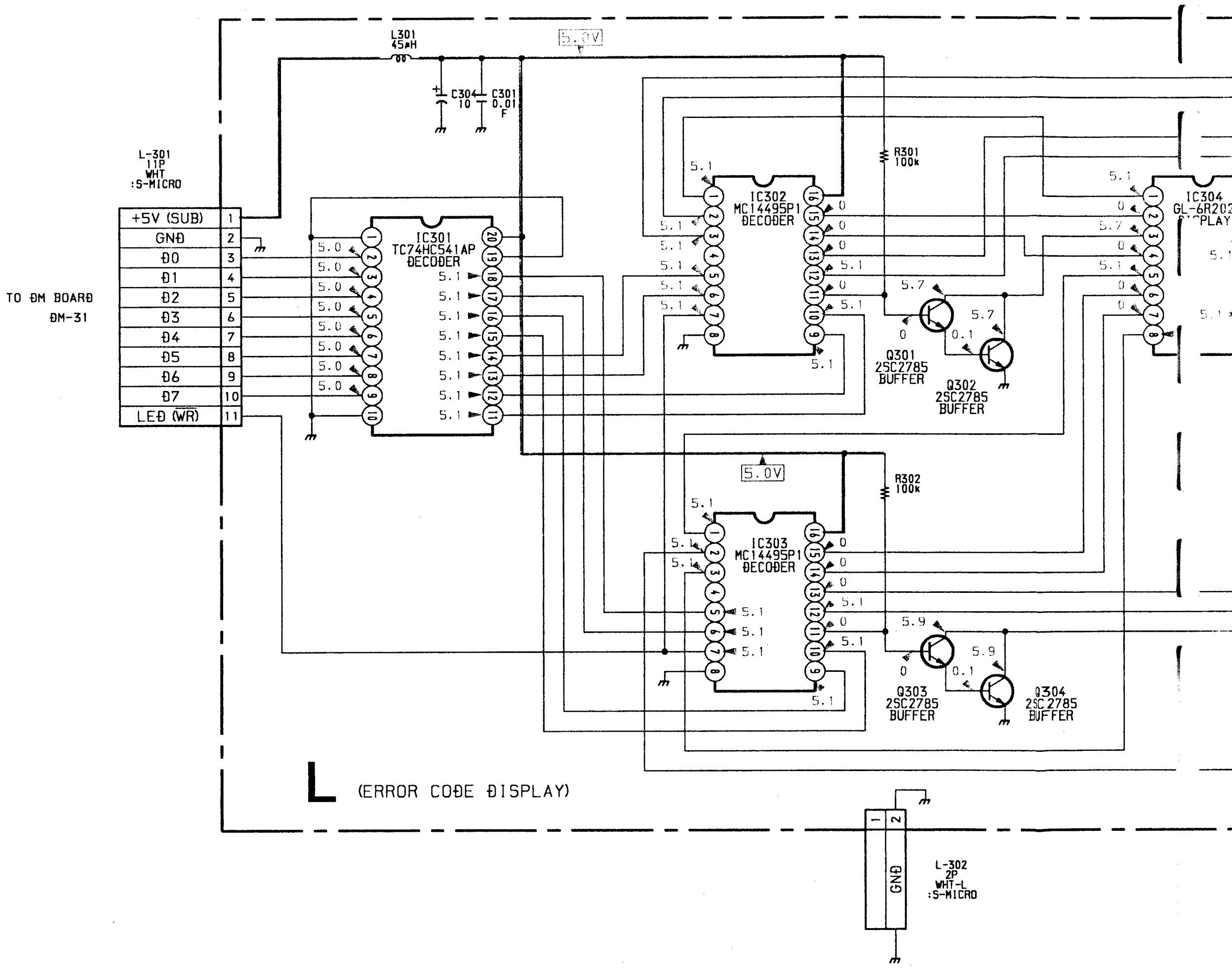
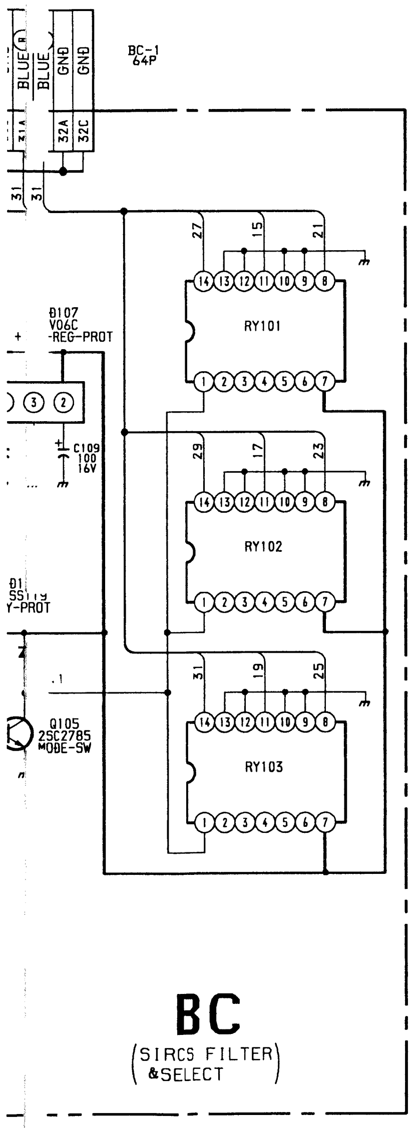
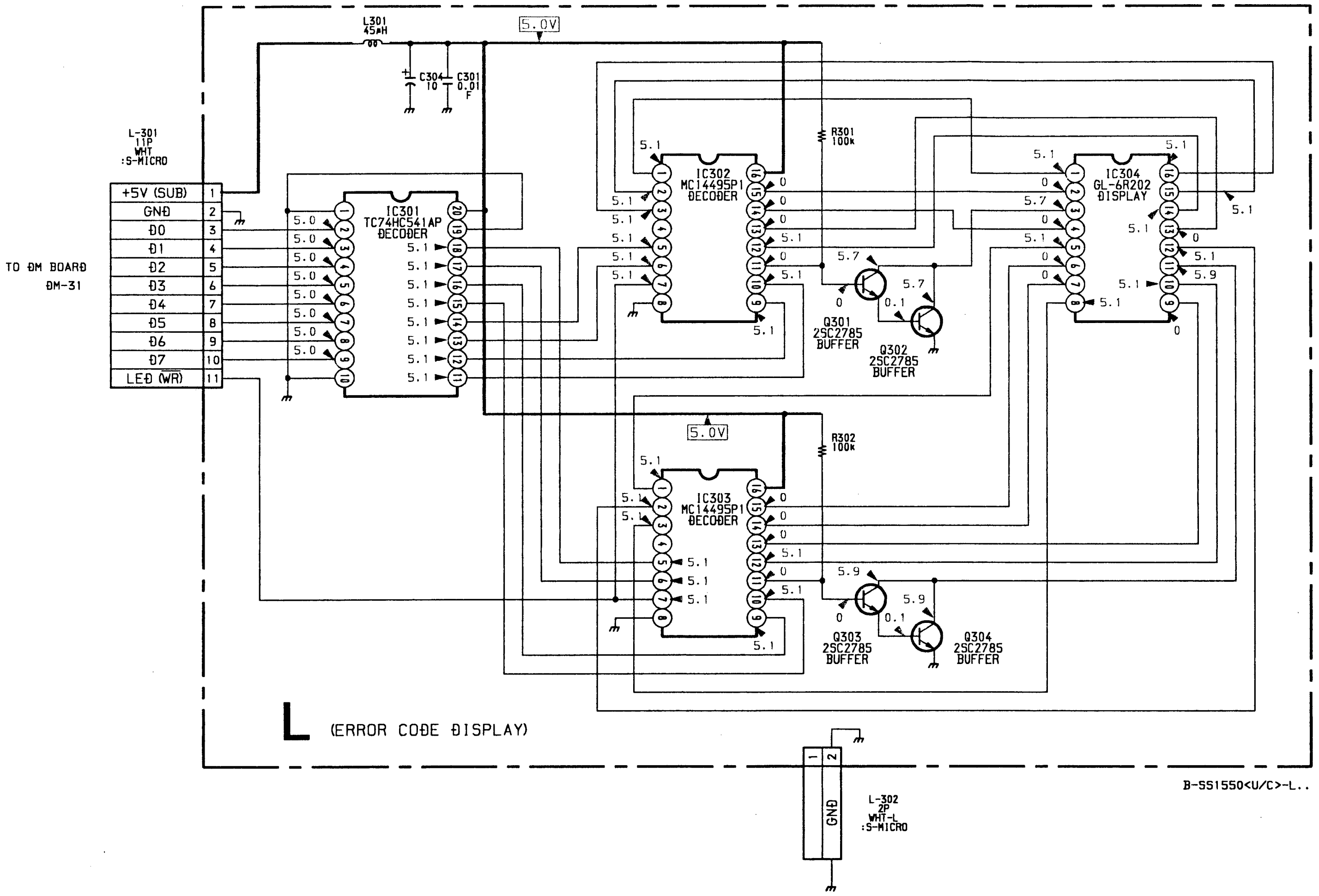
21
22
TO QM BOARD
QM-6
BM-9
6P
YEL
:S-MICRO
SONG (QHD)
GND
SHARPNESS
COLOR/B&W
GBR/YPBPR
HDVS SEL
TO QM BOARD
QM-4
BM-10
5P
BLK
:S-MICRO
SIRCS (Z.BC)
GND
SIRCS (BB)
INDEX/NOT
SUB+5V
TO CA (B) BOARD
CAB-J1
TO CA (G) BOARD
CAG-J1
TO CA (R) BOARD
CAR-J1
J3
J2
J1
TO QM BOARD
J7
TO QM BOARD
J8
TO QM BOARD
J9
J4
J5
J6
TO BC BOARD
BC-1
BM-6
SIRCS (RC)
SIRCS NB
SUB+5V
SIRCS (N)
INDEX/NOT
RED (RGB)
GREEN (RGB)
BLUE (RGB)
RED (A)
GREEN (A)
BLUE (A)
+15.5V
RED (B)
GREEN (B)
BLUE (B)
SIRCS (BB)
SIRCS (Z.BC)
SIRCS
SIRCS NA
SEL1
TO QA BOARD
QA-1
BM-5
POWER CONT
-15.5V
HDVSSEL
HS (RGB)
VS (RGB)
VIDEO/YC (1)
AUDIO (1)(L)
AUDIO (1)(R)
RGB/VIDEO (1)
B.CHA
G.CHA
AUDIO+12V
TO BM BOARD
BM-34
BM-2
AUDIO OUT (R)
AUDIO OUT (L)
CODE1
CODE2
CODE3
SECAM ON
VOL
HUE
COLOR
+5.7V
-5.7V
SEL2
VID/OTHER
BM-1
TO BM BOARD
BM-33
BRT
PIC
C.P.
BM
(MOTHER BOARD)
B-SS1550<U/C>-BM.


TO BM BOARD BM-6
BC-1
64P
GND
SIRCS (BB)
SIRCS (Z BC)
SIRCS (RC)
SIRCS
SIRCS (NA)
SIRCS (NB)
SUB+5V
SIRCS (N)
SEL1
INDEX/NOT
RED (RGB)
GREEN (RGB)
BLUE (RGB)
RED Ⓐ
GREEN Ⓐ
BLUE Ⓐ
+15.5V
RED Ⓑ
GREEN Ⓑ
BLUE Ⓑ
15.5V
5V
R101 100
R102 100
R103 47k
R104 47k
R105 47k
R106 10k
C101 0.01
C102 0.01
D103 1SS119 SIRCS-OR
D105 1SS119 SW
IC101 MC74HC4053N SIRCS-SW
IC102 SN74HC132AN BUFFER
IC103 SN74HC132AN BUFFER
IC104 HD74HC123AP GATE-PULSE-GEN
IC105 LM7812CT +12V-REG
D107 V06C +12V-REG-PROT
L101 45μH
C111 0.01
C110 10
C109 100 16V
D106 1SS119 RY-PROT
RY101
RY102
RY103
R108 10k
R110 10k
R107 2.2k
D101 1SS119 SIRCS-OR
D102 1SS119
Q101 2SC2785 SIRCS-INV
R109 10k
R112 100
R111 47k
R113 3.9k
R114 100
D104 1SS119 SIRCS-OR
R117 10k
Q102 2SC2785 SIRCS-INV
C105 4.7
R120 2.2k
R121 10k
R122 10k
Q104 2SC2785 MODE-SW
Q105 2SC2785 MODE-SW
C104 0.01
R118 33k
C107 4.7
C108 4.7
R119 33k
C103 0.01
R115 47k
R116 3.9k
C106 4.7
Q103 2SC2785 SIRCS-INV
BC
(SIRCS FILTER &SELECT)
B-SS1550<U/C>-BC.

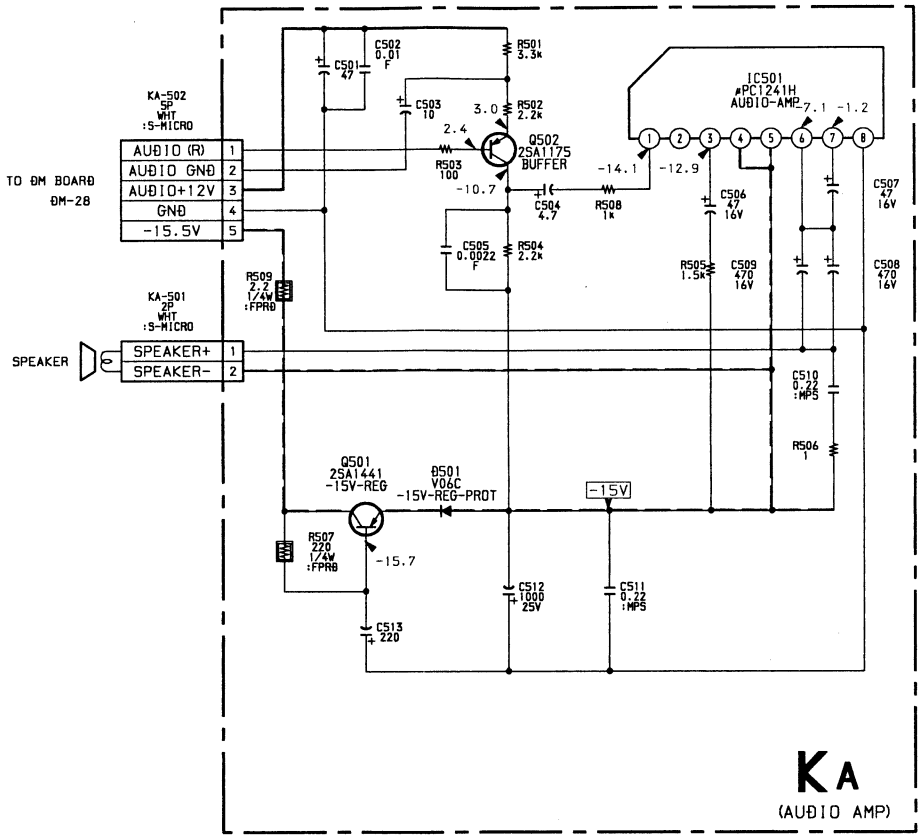

L301 45μH
5.0V
C304 10
C301 0.01
L-301 11P WHT :S-MICRO
+5V (SUB)
GND
D0
D1
D2
D3
D4
D5
D6
D7
LED (WR)
TO BM BOARD BM-31
IC301 TC74HC541AP DECODER
IC302 MC14495P1 DECODER
IC303 MC14495P1 DECODER
IC304 GL-6R203 DISPLAY
R301 100k
R302 100k
Q301 2SC2785 BUFFER
Q302 2SC2785 BUFFER
Q303 2SC2785 BUFFER
Q304 2SC2785 BUFFER
L
(ERROR CODE DISPLAY)
L-302 2P WHT-L :S-MICRO
GND


BC-1
64P
BLUE
GND
GND
32A
32C
RY101
RY102
RY103
D107
V06C
-REG-PROT
C109
100
16V
Q105
2SC2785
MODE-SW
BC
(SIRCS FILTER &SELECT)

B-SS1550<U/C>-BC.


L-301
11P
WHT
:S-MICRO
TO DM BOARD
DM-31
+5V (SUB)
GND
D0
D1
D2
D3
D4
D5
D6
D7
LED (WR)
L301
45µH
5.0V
C304
10
C301
0.01
F
IC301
TC74HC541AP
DECODER
IC302
MC14495P1
DECODER
IC303
MC14495P1
DECODER
IC304
GL-6R202
DISPLAY
R301
100k
R302
100k
Q301
2SC2785
BUFFER
Q302
2SC2785
BUFFER
Q303
2SC2785
BUFFER
Q304
2SC2785
BUFFER
L-302
2P
WHT-L
:S-MICRO
GND
L
(ERROR CODE DISPLAY)

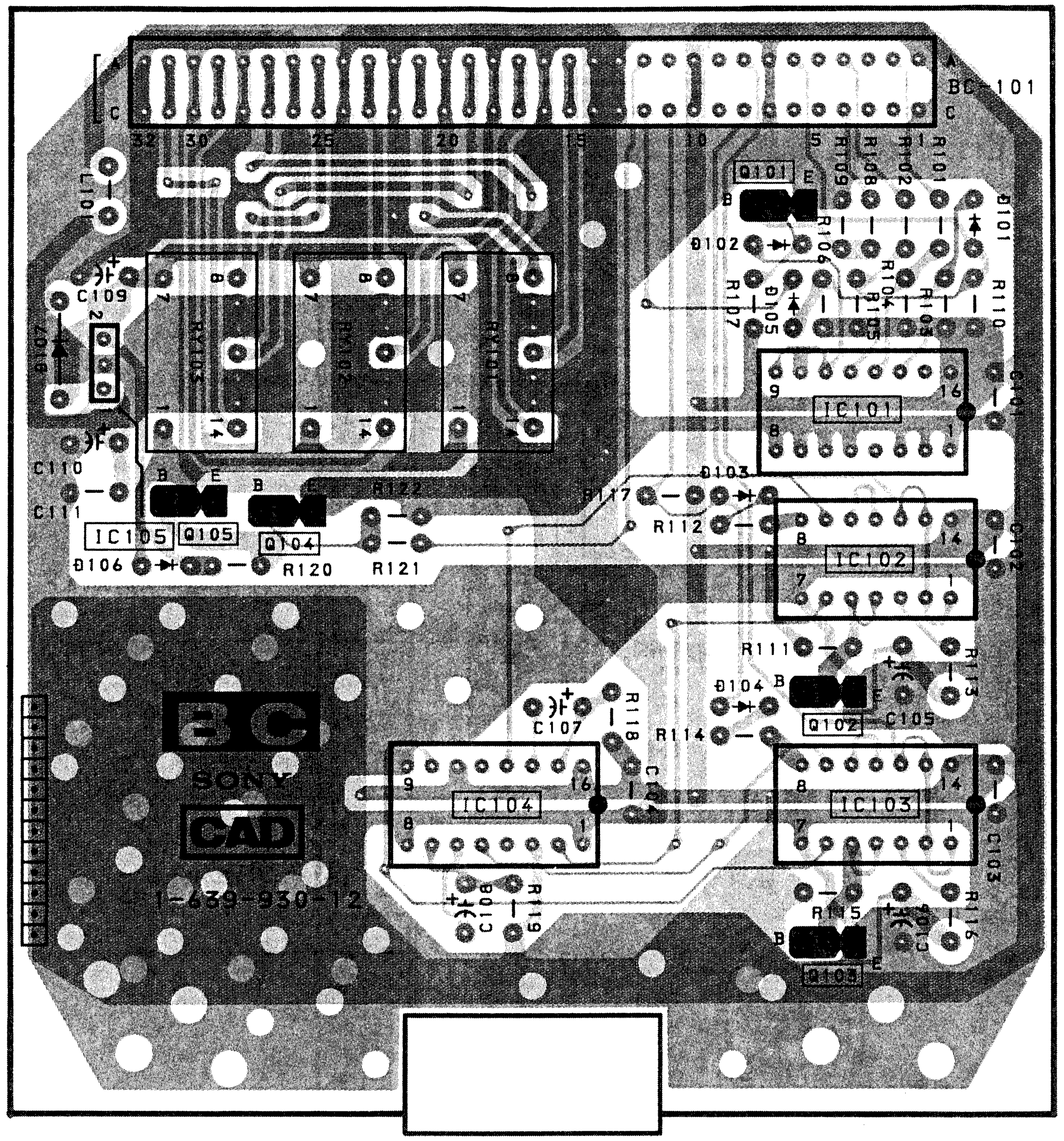
B-SS1550<U/C>-L..


KA-502
5P
WHT
:S-MICRO
TO DM BOARD
DM-28
AUDIO (R)
AUDIO GND
AUDIO+12V
GND
-15.5V
KA-501
2P
WHT
:S-MICRO
SPEAKER
SPEAKER+
SPEAKER-
C501
47
C502
0.01
F
C503
10
R501
3.3k
R502
2.2k
R503
100
Q502
2SA1175
BUFFER
C504
4.7
R508
1k
C505
0.0022
F
R504
2.2k
IC501
µPC1241H
AUDIO-AMP
C506
47
16V
R505
1.5k
C509
470
16V
C507
47
16V
C508
470
16V
C510
0.22
:MPS
R506
1
R509
2.2
1/4W
:FPRD
Q501
2SA1441
-15V-REG
D501
V06C
-15V-REG-PROT
-15V
R507
220
1/4W
:FPRD
C512
1000
25V
C511
0.22
:MPS
C513
220
KA
(AUDIO AMP)

B-SS1550<U/C>-KA.

BC [SIRCS FILTER & SELECT]

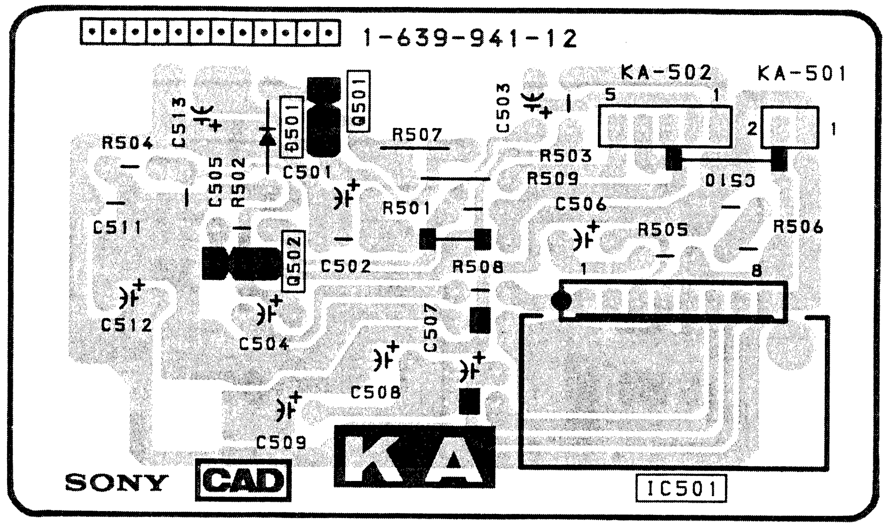
– BC BOARD –


BC-101
L101
C109
C110
C111
IC105
Q105
Q104
D106
R120
R121
R122
RY101
RY102
RY103
Q101
D101
D102
R101
R102
R103
R104
R105
R106
R107
R108
R109
R110
IC101
C101
D103
R117
R112
IC102
C102
R111
D104
Q102
C105
R113
C107
R118
R114
IC104
C104
IC103
C103
C108
R119
R115
Q103
R116
BC
SONY
CAD
1-639-930-12

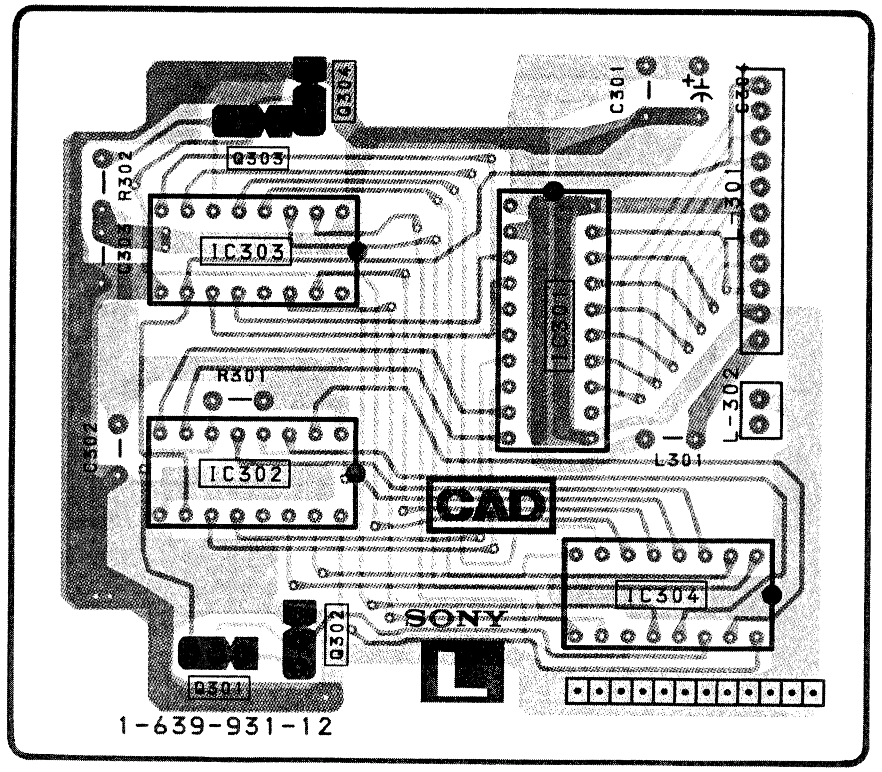
• ░ : Pattern from the side which enables seeing.
• ▒ : Pattern of the rear side.

KA [AUDIO AMP] **L** [ERROR CODE DISPLAY]

– KA BOARD –


1-639-941-12
KA-502
KA-501
R504
C513
D501
Q501
R507
C503
R503
R509
C510
C505
R502
C501
R501
C506
R505
R506
C511
Q502
C502
R508
C512
C504
C507
C508
C509
IC501
SONY
CAD
KA

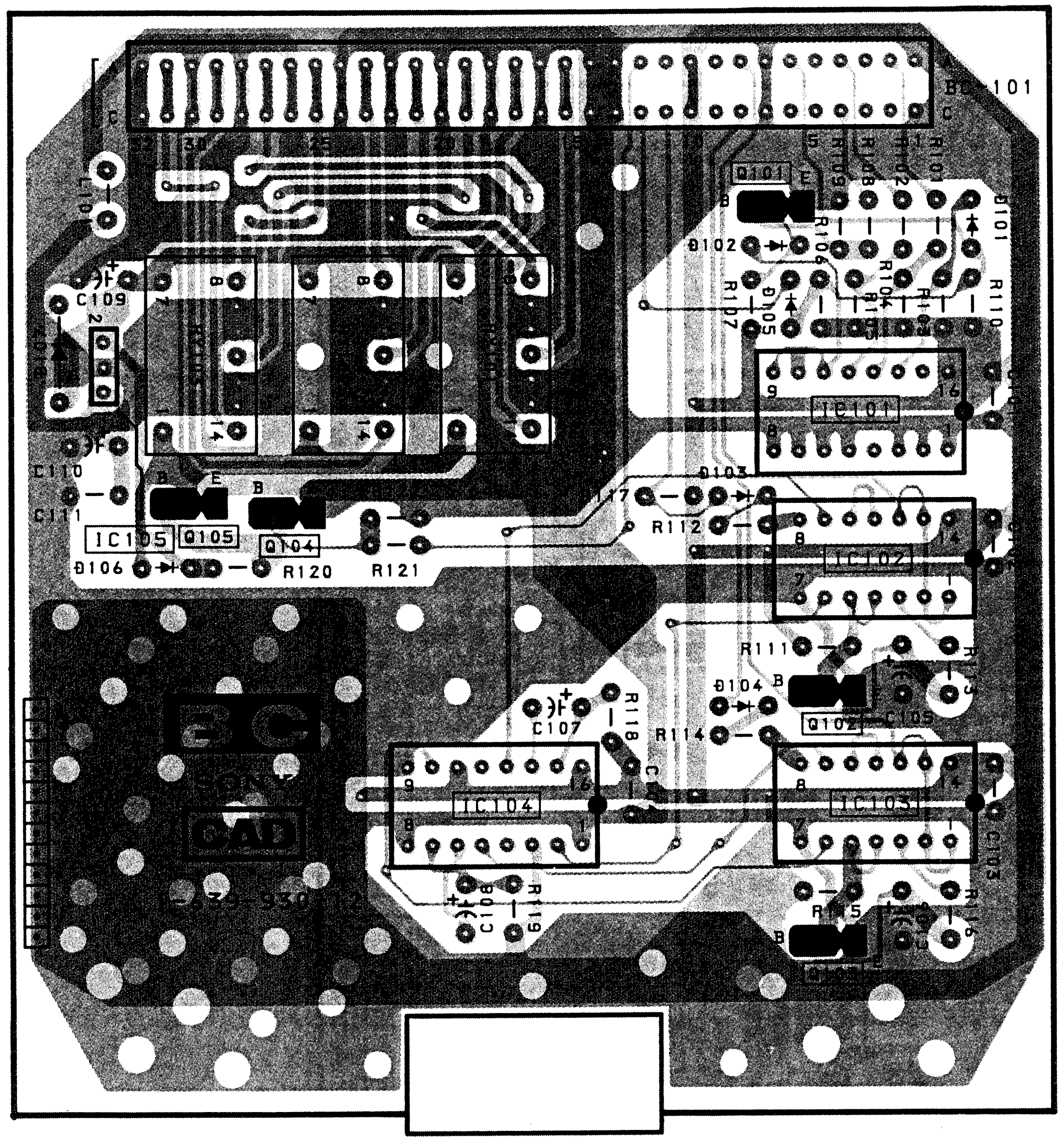
– L BOARD –


Q304
Q303
C301
C303
R302
IC303
L-301
IC301
R301
L-302
C302
IC302
L301
CAD
IC304
Q302
Q301
SONY
L
1-639-931-12

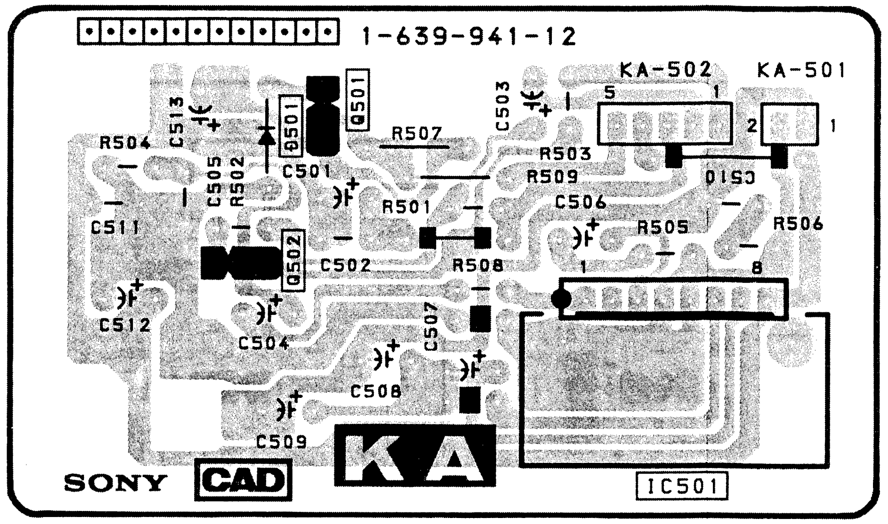
BC [SIRCS FILTER & SELECT]

KA [AUDIO AMP] **L** [ERROR CODE DISPLAY]

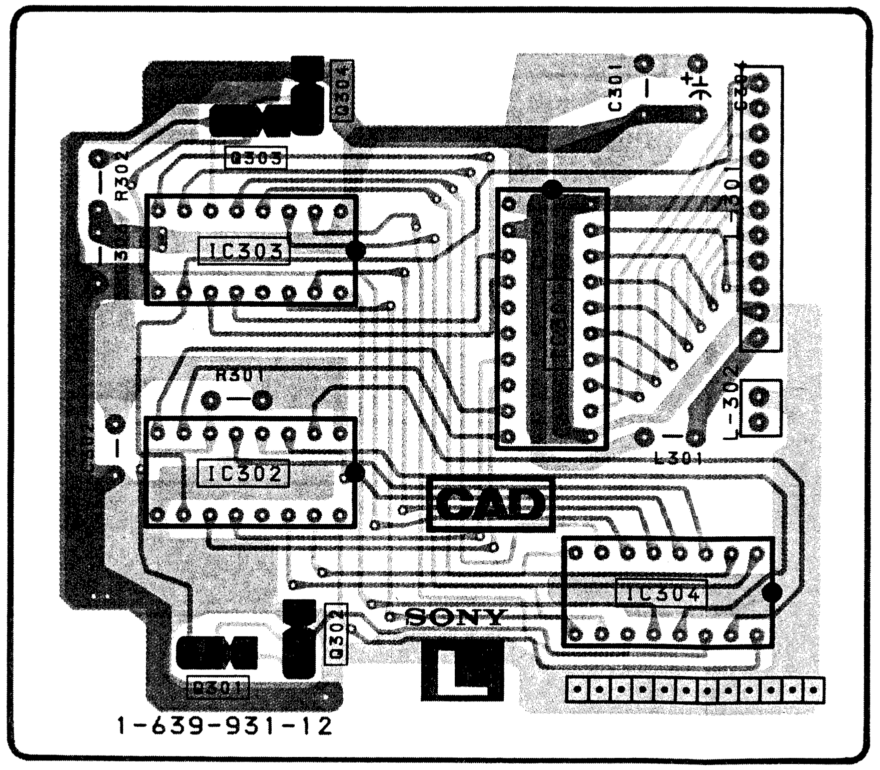
– BC BOARD –


BC-101
IC101
IC102
IC103
IC104
IC105
Q101
Q102
Q104
Q105
D101
D102
D103
D104
D105
D106
C107
C108
C109
C110
C111
R106
R107
R108
R109
R110
R111
R112
R114
R115
R116
R117
R118
R119
R120
R121
BC
SONY
CAD

– KA BOARD –


1-639-941-12
KA-502
KA-501
R504
C513
Q501
R507
C503
R503
R509
D510
C505
R502
C501
R501
C506
R505
R506
C511
Q502
C502
R508
C512
C504
C507
C508
C509
SONY
CAD
KA
IC501

– L BOARD –


C301
C302
Q304
Q303
R302
IC303
IC301
R301
IC302
L302
L301
CAD
IC304
SONY
Q302
Q301
L
1-639-931-12

- ▨ : Pattern from the side which enables seeing.
- ▨ : Pattern of the rear side.

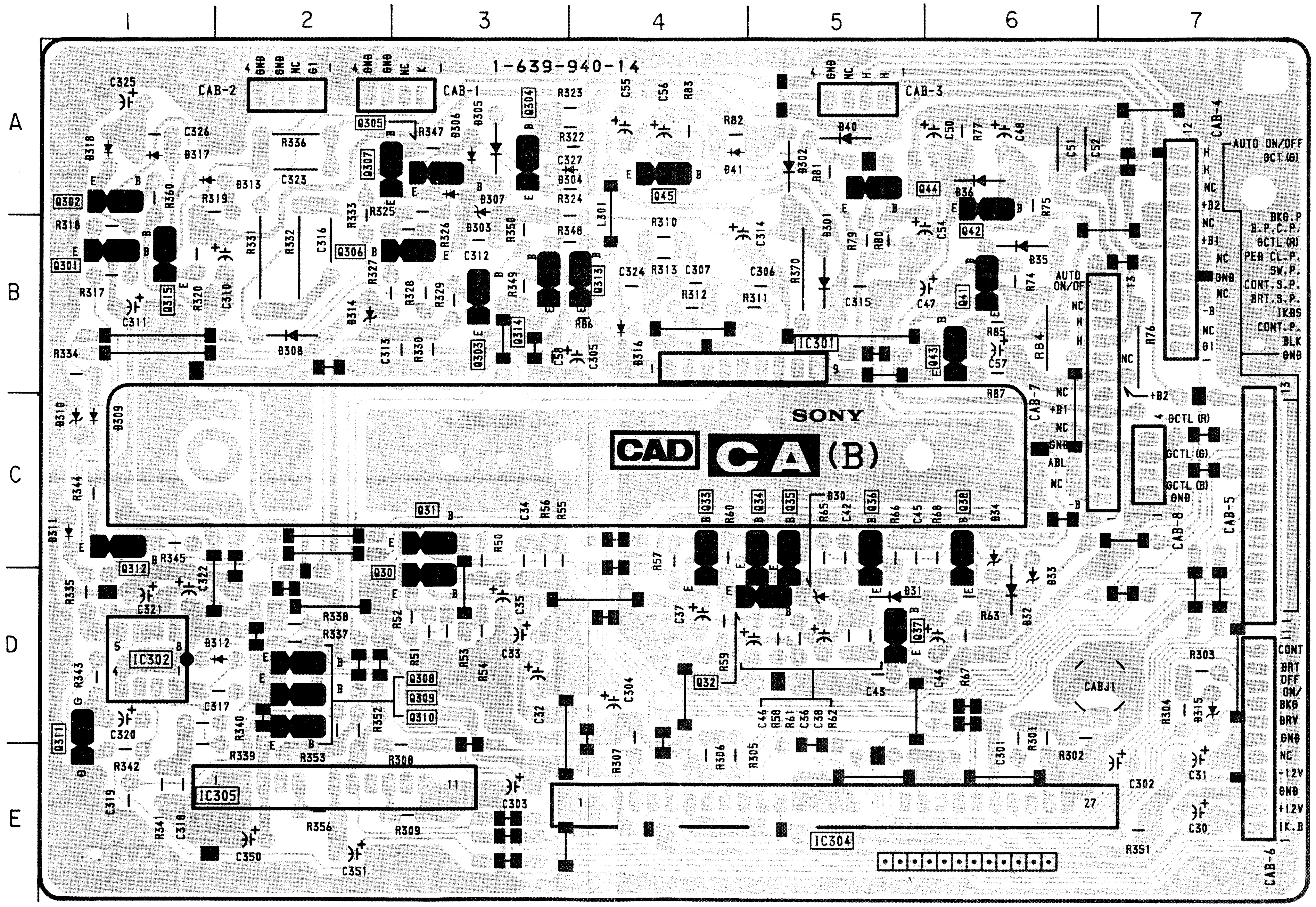
CA(B)

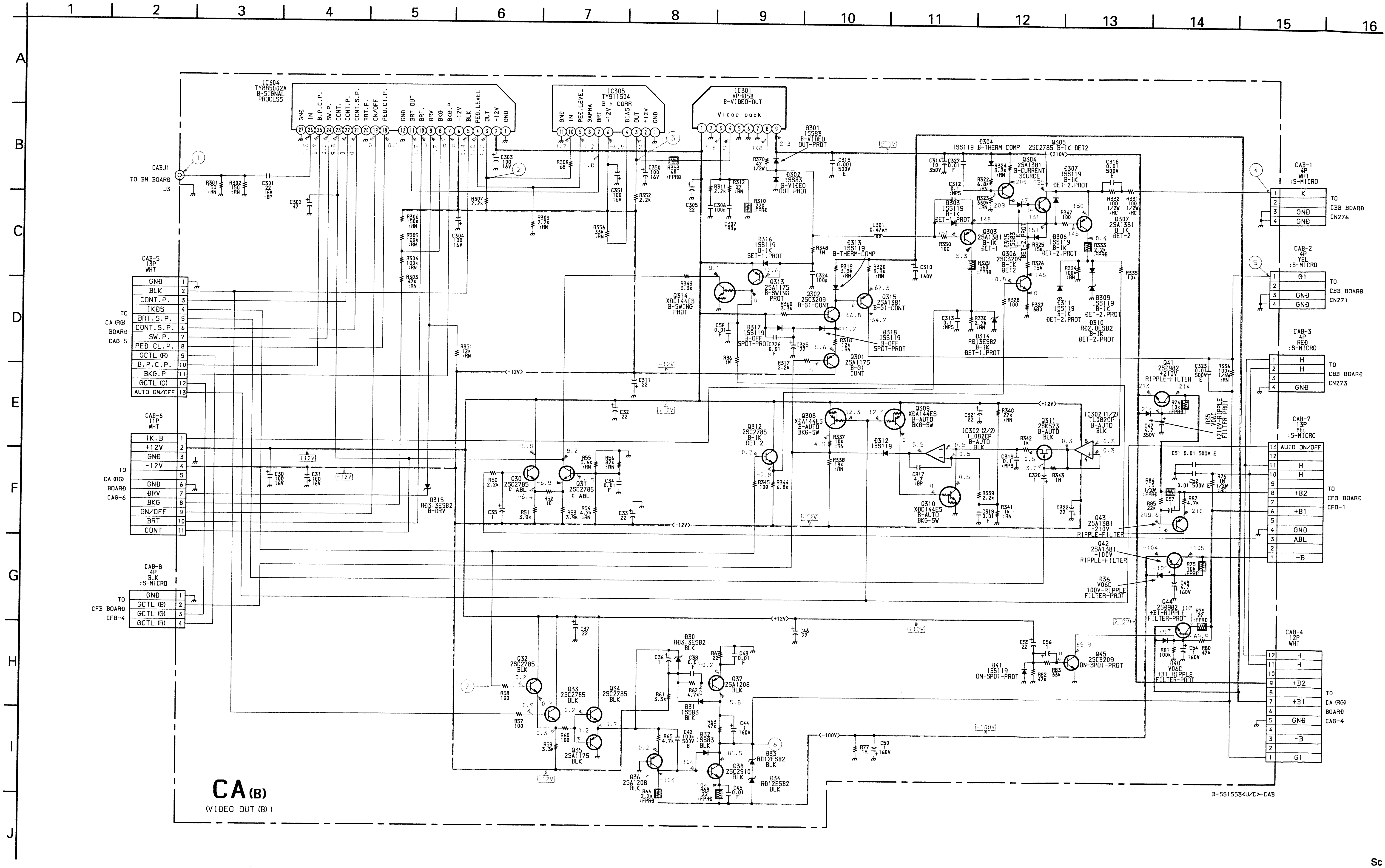
[VIDEO OUT B]

CA(B) BOARD

IC	
IC301	B-5
IC302	D-1
IC304	E-5
IC305	E-2
TRANSISTOR	
Q30	D-3
Q31	C-3
Q32	D-5
Q33	C-4
Q34	C-5
Q35	C-5
Q36	C-5
Q37	D-5
Q38	C-6
Q41	B-6
Q42	A-6
Q43	B-6
Q44	A-5
Q45	A-4
Q301	B-1
Q302	A-1
Q303	B-3
Q304	A-3
Q305	A-3
Q306	B-2
Q307	A-2
Q308	D-2
Q309	D-2
Q310	D-2
Q311	D-1
Q312	C-1
Q313	B-4
Q314	B-3
Q315	B-1
DIODE	
D30	D-5
D31	D-5
D32	D-6
D33	D-6
D34	C-6
D35	B-6
D36	A-6
D40	A-5
D41	A-4
D301	B-5
D302	A-5
D303	A-3
D304	A-3
D305	A-3
D306	A-3
D307	A-3
D309	C-1
D310	C-1
D311	C-1
D312	D-1
D313	A-1
D314	B-2
D315	D-7
D316	B-4
D317	A-1
D318	A-1

– CA(B) BOARD –


1
2
3
4
5
6
7
A
B
C
D
E
1-639-940-14
CAB-1
CAB-2
CAB-3
CAB-4
CAB-5
CAB-6
CAB-7
CAB-8
CABJ1
IC301
IC302
IC304
IC305
SONY
CAD
CA (B)
AUTO ON/OFF
GCT (G)
BKG.P
B.P.C.P.
GCTL (R)
PEG CL.P.
SW.P.
CONT.S.P.
BRT.S.P.
IKBS
CONT.P.
BLK
GND
CONT
BRT
OFF
ON/
BKG
BRV
GND
NC
-12V
GND
+12V
IK.B


IC304
TY885002A
B-SIGNAL PROCESS
IC305
TY911504
B γ CORR
IC301
VPH05B
B-VIDEO-OUT
Video pack
CABJ1
TO BM BOARD
J3
CAB-5
13P
WHT
GND
BLK
CONT.P.
IKDS
BRT.S.P.
CONT.S.P.
SW.P.
PED CL.P.
GCTL (R)
B.P.C.P.
BKG.P
GCTL (G)
AUTO ON/OFF
TO
CA (RG)
BOARD
CAG-5
CAB-6
11P
WHT
IK.B
+12V
GND
-12V
GND
DRV
BKG
ON/OFF
BRT
CONT
TO
CA (RG)
BOARD
CAG-6
CAB-8
4P
BLK
:S-MICRO
GND
GCTL (B)
GCTL (G)
GCTL (R)
TO
CFB BOARD
CFB-4
CAB-1
4P
WHT
:S-MICRO
K
GND
GND
TO
CBB BOARD
CN276
CAB-2
4P
YEL
:S-MICRO
G1
GND
GND
TO
CBB BOARD
CN271
CAB-3
4P
RED
:S-MICRO
H
H
GND
TO
CBB BOARD
CN273
CAB-7
13P
YEL
:S-MICRO
AUTO ON/OFF
H
H
+B2
+B1
GND
ABL
-B
TO
CFB BOARD
CFB-1
CAB-4
12P
WHT
H
H
+B2
+B1
GND
-B
G1
TO
CA (RG)
BOARD
CAG-4
D301 1SS83 B-VIDEO OUT-PROT
D302 1SS83 B-VIDEO OUT-PROT
D304 1SS119 B-THERM COMP
Q305 2SC2785 B-IK DET2
Q304 2SA1381 B-CURRENT SOURCE
D307 1SS119 B-IK DET-2.PROT
Q307 2SA1381 B-IK DET-2
D303 1SS119 B-IK DET-1.PROT
Q303 2SA1381 B-IK DET-1
D305 1SS119 B-IK DET-2.PROT
D306 1SS119 B-IK DET-2.PROT
Q306 2SC3209 B-IK DET2
D311 1SS119 B-IK DET-2.PROT
D309 1SS119 B-IK DET-2.PROT
D310 RD2.0ESB2 B-IK DET-2.PROT
D314 RD13ESB2 B-IK DET-1.PROT
D316 1SS119 B-IK SET-1.PROT
D313 1SS119 B-THERM-COMP
Q313 2SA1175 B-SWING PROT
Q314 XDC144ES B-SWING PROT
Q302 2SC3209 B-G1-CONT
Q315 2SA1381 B-G1-CONT
D317 1SS119 B-OFF SPOT-PROT
D318 1SS119 B-OFF SPOT-PROT
Q301 2SA1175 B-G1 CONT
Q41 2SD982 +210V RIPPLE-FILTER
D35 V06C +210V-RIPPLE FILTER-PROT
Q308 XDA144ES B-AUTO BKG-SW
Q309 XDA144ES B-AUTO BKG-SW
Q312 2SC2785 B-IK DET-2
D312 1SS119
IC302 (2/2) TL082CP B-AUTO BLK
Q311 2SK523 B-AUTO BLK
IC302 (1/2) TL082CP B-AUTO BLK
Q310 XDC144ES B-AUTO BKG-SW
Q30 2SC2785 Σ ABL
Q31 2SC2785 Σ ABL
D315 RD3.3ESB2 B-DRV
Q43 2SA1381 +210V RIPPLE-FILTER
Q42 2SA1381 -100V RIPPLE-FILTER
D36 V06C -100V-RIPPLE FILTER-PROT
Q44 2SD982 +B1-RIPPLE FILTER-PROT
D40 V06C +B1-RIPPLE FILTER-PROT
D41 1SS119 ON-SPOT-PROT
Q45 2SC3209 ON-SPOT-PROT
D30 RD3.3ESB2 BLK
Q32 2SC2785 BLK
Q33 2SC2785 BLK
Q34 2SC2785 BLK
Q35 2SA1175 BLK
Q37 2SA1208 BLK
D31 1SS83 BLK
D32 1SS83 BLK
Q36 2SA1208 BLK
Q38 2SC2910 BLK
D33 RD12ESB2 BLK
D34 RD12ESB2 BLK
L301 0.47μH
<-12V>
<+12V>
<-100V>
<210V>
CA(B)
(VIDEO OUT (B))
B-SS1553<U/C>-CAB
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A
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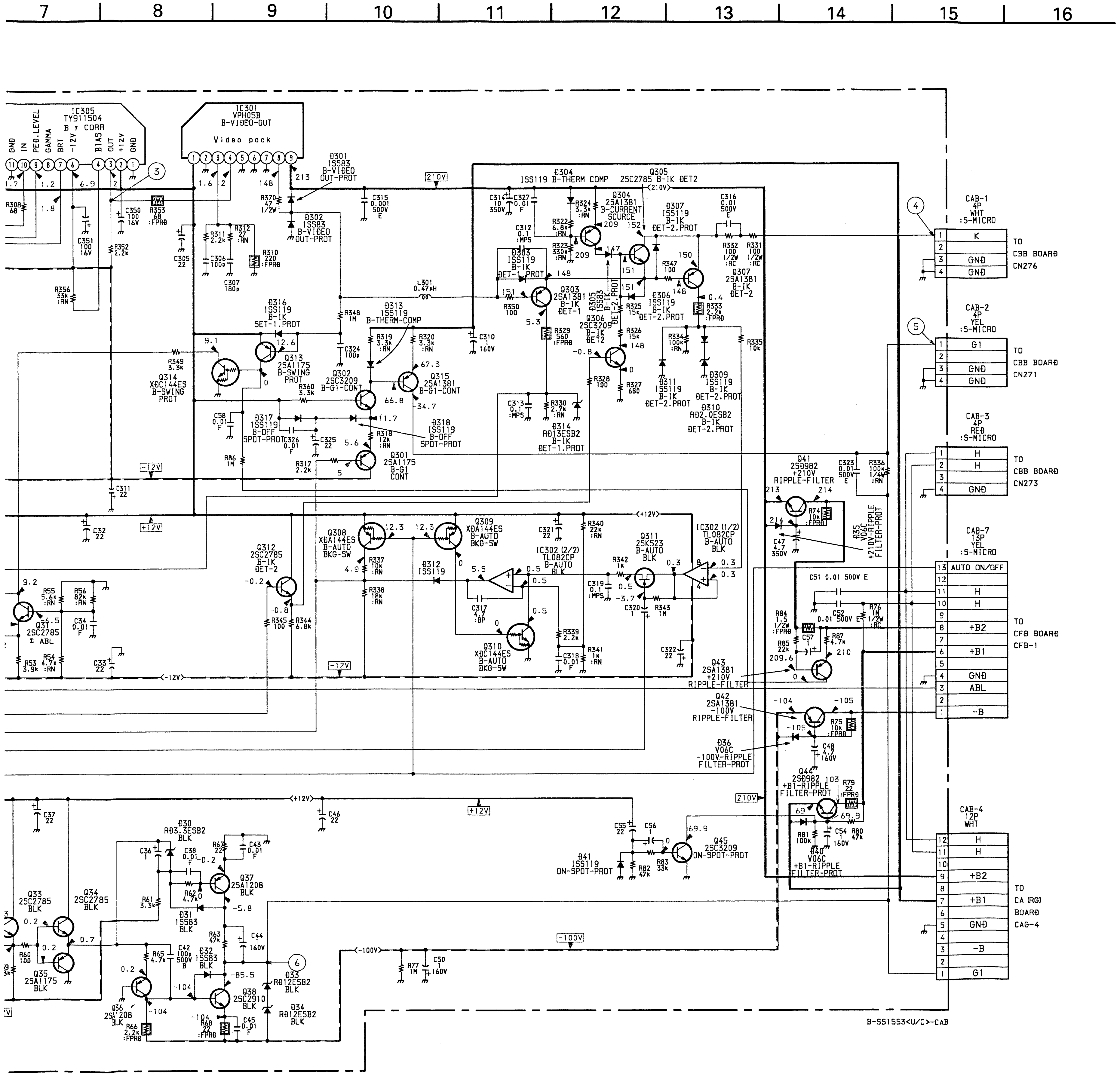
I
J

Sc
← C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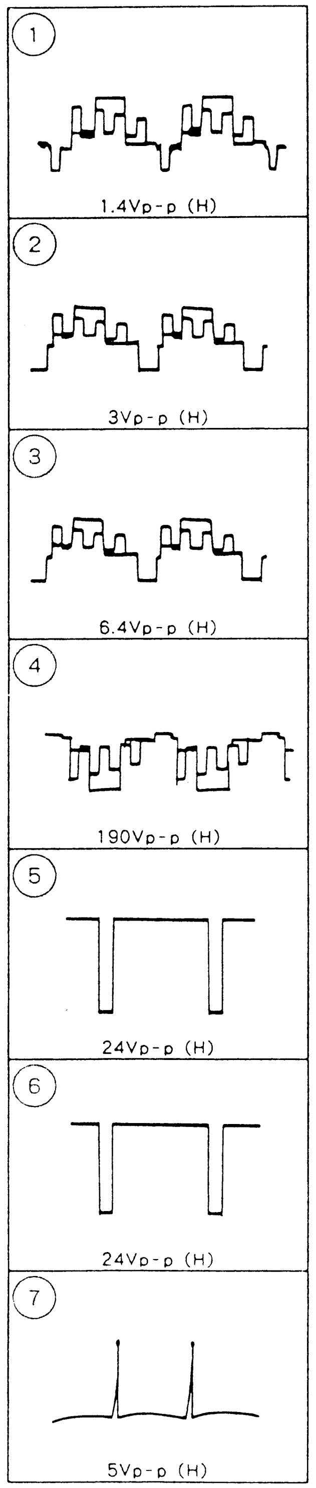
IC305 TY911504 B γ CORR
IC301 VPH05B B-VIDEO-OUT
Video pack
D301 1SS83 B-VIDEO OUT-PROT
D302 1SS83 B-VIDEO OUT-PROT
210V
D304 1SS119 B-THERM COMP
D305 2SC2785 B-IK DET2
Q304 2SA1381 B-CURRENT SCURCE
D307 1SS119 B-IK DET-2.PROT
Q307 2SA1381 B-IK DET-2
D303 1SS119 B-IK DET-1.PROT
Q303 2SA1381 B-IK DET-1
Q306 2SC3209 B-IK DET2
D306 1SS119 B-IK DET-2.PROT
D313 1SS119 B-THERM-COMP
L301 0.47μH
D316 1SS119 B-IK SET-1.PROT
Q313 2SA1175 B-SWING PROT
Q314 XDC144ES B-SWING PROT
Q302 2SC3209 B-G1-CONT
Q315 2SA1381 B-G1-CONT
D317 1SS119 B-OFF SPOT-PROT
D318 1SS119 B-OFF SPOT-PROT
Q301 2SA1175 B-G1 CONT
D314 RD13ESB2 B-IK DET-1.PROT
D311 1SS119 B-IK DET-2.PROT
D309 1SS119 B-IK DET-2.PROT
D310 RD2.0ESB2 B-IK DET-2.PROT
Q41 2SD982 +210V RIPPLE-FILTER
D35 V06C +210V-RIPPLE FILTER-PROT
Q308 XDA144ES B-AUTO BKG-SW
Q309 XDA144ES B-AUTO BKG-SW
IC302 (2/2) TL082CP B-AUTO BLK
IC302 (1/2) TL082CP B-AUTO BLK
Q311 2SK523 B-AUTO BLK
Q312 2SC2785 B-IK DET-2
D312 1SS119
Q310 XDC144ES B-AUTO BKG-SW
Q31 2SC2785 Σ ABL
Q43 2SA1381 +210V RIPPLE-FILTER
Q42 2SA1381 -100V RIPPLE-FILTER
D36 V06C -100V-RIPPLE FILTER-PROT
Q44 2SD982 +B1-RIPPLE FILTER-PROT
D40 V06C +B1-RIPPLE FILTER-PROT
Q45 2SC3209 ON-SPOT-PROT
D41 1SS119 ON-SPOT-PROT
Q33 2SC2785 BLK
Q34 2SC2785 BLK
Q35 2SA1175 BLK
Q36 2SA1208 BLK
Q37 2SA1208 BLK
Q38 2SC2910 BLK
D30 RD3.3ESB2 BLK
D31 1SS83 BLK
D32 1SS83 BLK
D33 RD12ESB2 BLK
D34 RD12ESB2 BLK
+12V
-12V
-100V
CAB-1 4P WHT :S-MICRO
K
GND
GND
TO CBB BOARD CN276
CAB-2 4P YEL :S-MICRO
G1
GND
GND
TO CBB BOARD CN271
CAB-3 4P RED :S-MICRO
H
H
GND
TO CBB BOARD CN273
CAB-7 13P YEL :S-MICRO
AUTO ON/OFF
H
H
+B2
+B1
GND
ABL
-B
TO CFB BOARD CFB-1
CAB-4 12P WHT
H
H
+B2
+B1
GND
-B
G1
TO CA (RG) BOARD CAG-4
B-SS1553<U/C>-CAB

CA(B) BOARD



Schematic diagram

← C A(B) board

CA(RG)

[VIDEO OUT R.G]

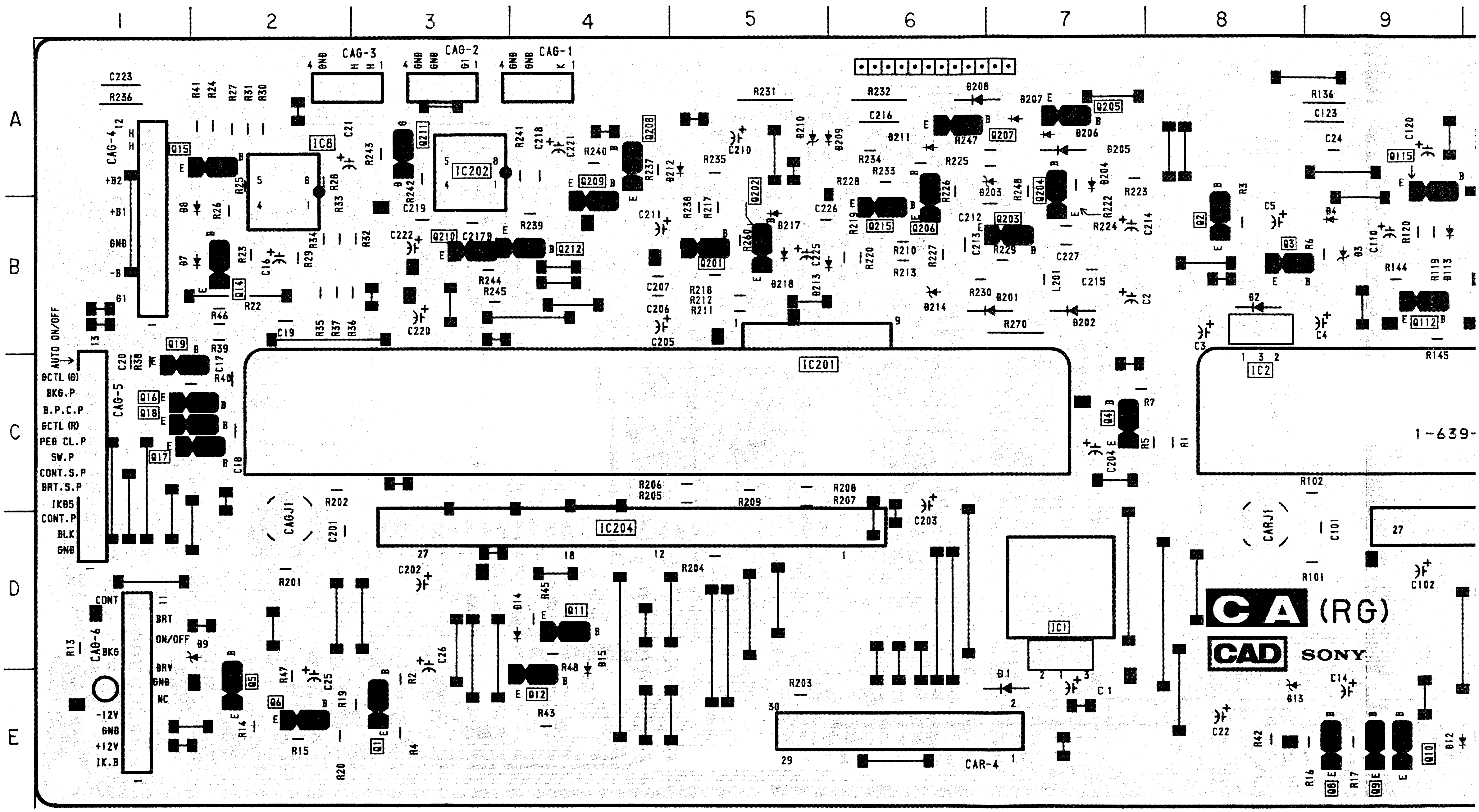
CA(RG) BOARD

IC	
IC1	D-7
IC2	B-8
IC3	D-13
IC4	E-13
IC5	E-12
IC6	E-11
IC7	D-12
IC8	A-2
IC101	B-11
IC102	A-11
IC104	D-10
IC201	B-5
IC202	A-3
IC204	D-4

TRANSISTOR	
Q1	E-3
Q2	B-8
Q3	B-8
Q4	C-7
Q5	E-2
Q8	E-9
Q9	E-9
Q10	E-9
Q11	D-4
Q12	E-4
Q14	B-2
Q15	A-2
Q16	C-1
Q17	C-1
Q18	C-1
Q19	C-1
Q101	A-10
Q102	B-10
Q103	B-13
Q104	B-13
Q105	A-13
Q106	A-12
Q107	A-12
Q108	A-10
Q109	A-10
Q110	B-11
Q111	A-11
Q112	B-9
Q113	C-12
Q115	A-9
Q201	B-5
Q202	B-5
Q203	B-7
Q204	A-7
Q205	A-7
Q206	B-6
Q207	A-6
Q208	A-4
Q209	A-4
Q210	B-3
Q211	A-3
Q212	B-4
Q215	B-6

DIODE	
D1	E-7
D2	B-8
D3	B-9
D4	B-9
D7	B-2
D8	B-2
D9	D-2
D12	E-9
D13	E-8
D14	D-4
D15	E-4
D101	B-12
D102	B-12
D103	B-13
D104	B-13
D105	A-13
D106	A-13
D107	A-13
D109	A-12
D110	A-12
D111	A-12
D112	B-11
D113	B-9
D114	B-13
D115	D-14
D117	A-10
D118	B-10
D120	A-11
D121	B-11
D122	A-11
D201	B-7
D202	B-7
D203	A-6
D204	A-7
D205	A-7
D206	A-7
D207	A-7
D209	A-5
D210	A-5
D211	A-6
D212	A-5
D213	B-5
D214	B-6
D217	B-5
D218	B-5

– CA(RG) BOARD –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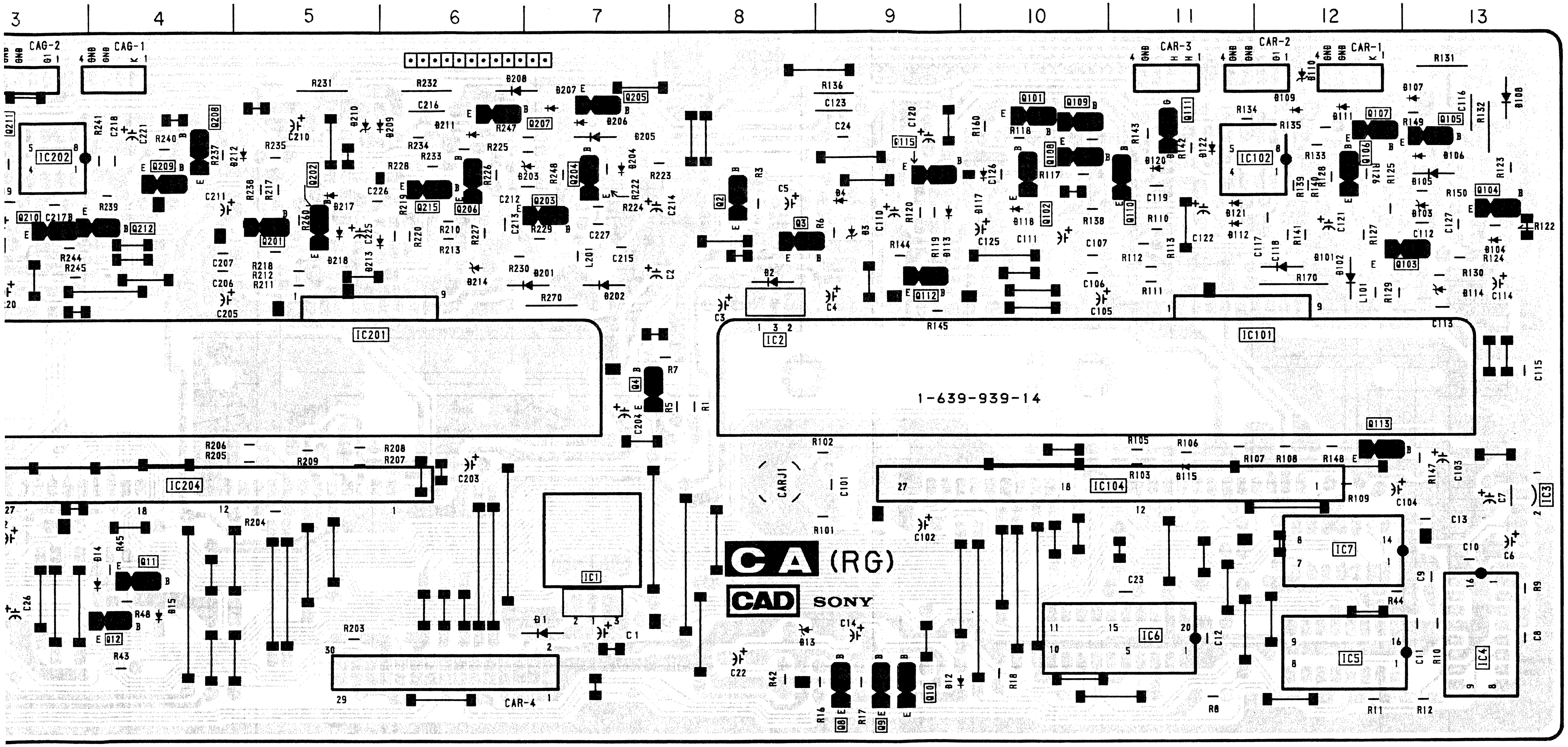
CAG-3
CAG-2
CAG-1
CAG-4
CAG-5
CAG-6
CAR-4
IC8
IC202
IC201
IC204
IC1
IC2
AUTO ON/OFF
BCTL (G)
BKG.P
B.P.C.P
BCTL (R)
PEB CL.P
SW.P
CONT.S.P
BRT.S.P
IKBS
CONT.P
BLK
GNB
CONT
BRT
ON/OFF
BRV
GNB
NC
BKG
-12V
GNB
+12V
IK.B
+B2
+B1
GNB
-B
CAGJ1
CARJ1
1-639-
CA (RG)
CAD
SONY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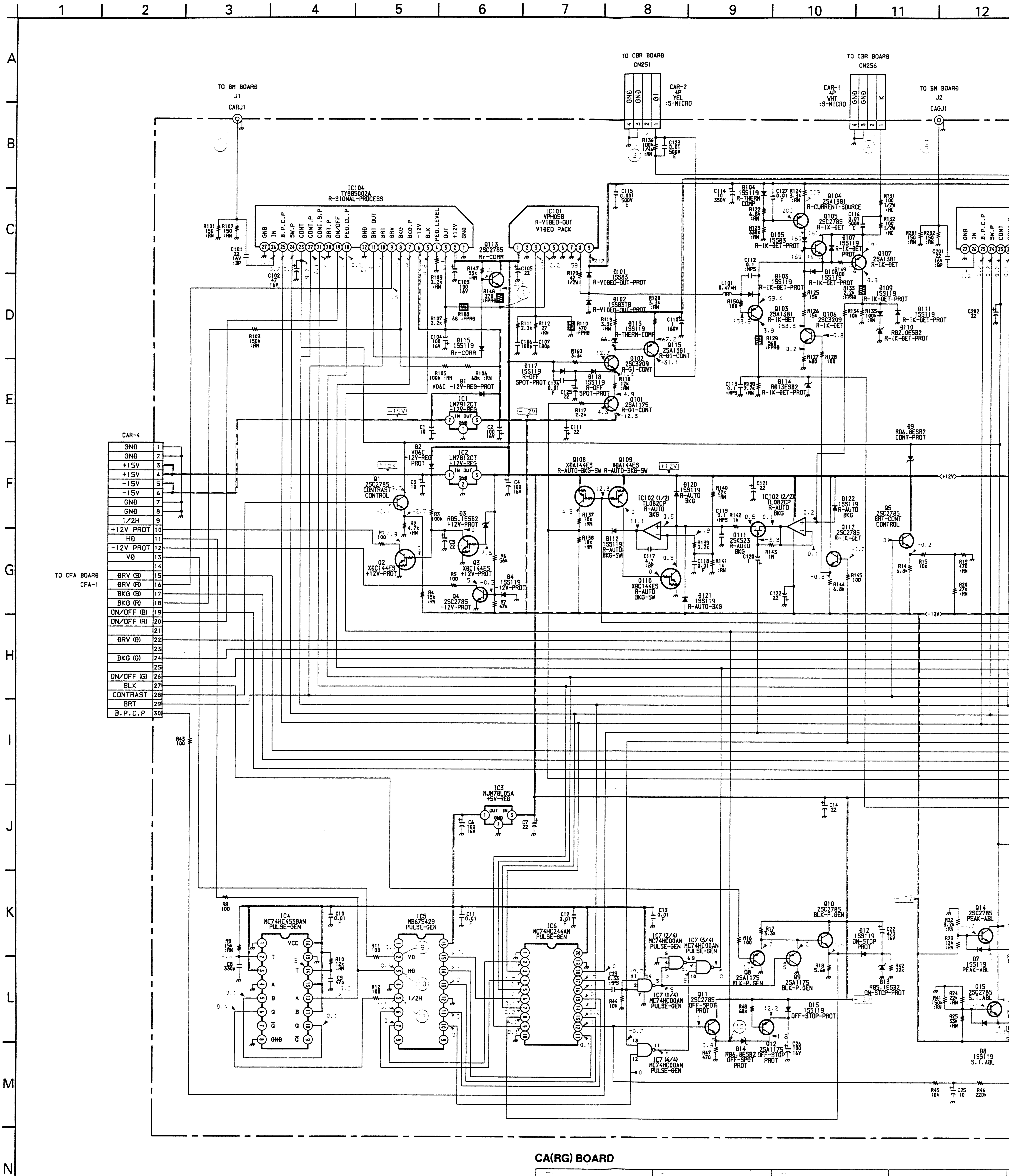
CAG-2
CAG-1
CAR-3
CAR-2
CAR-1
CAR-4
IC202
IC201
IC204
IC1
IC2
IC101
IC102
IC104
IC3
IC4
IC5
IC6
IC7
1-639-939-14
CARJ1
CA (RG)
CAD
SONY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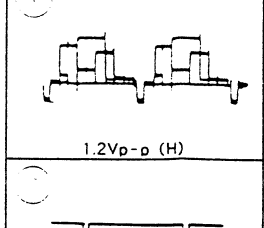
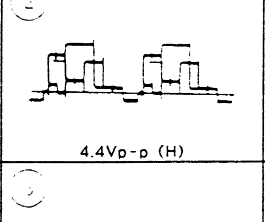
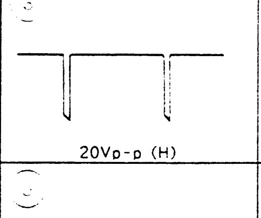
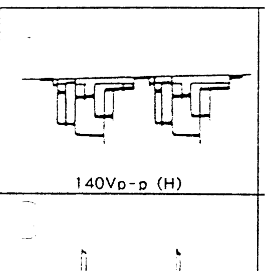
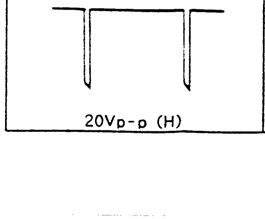
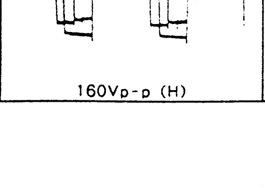
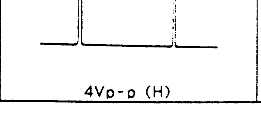
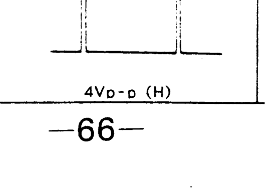
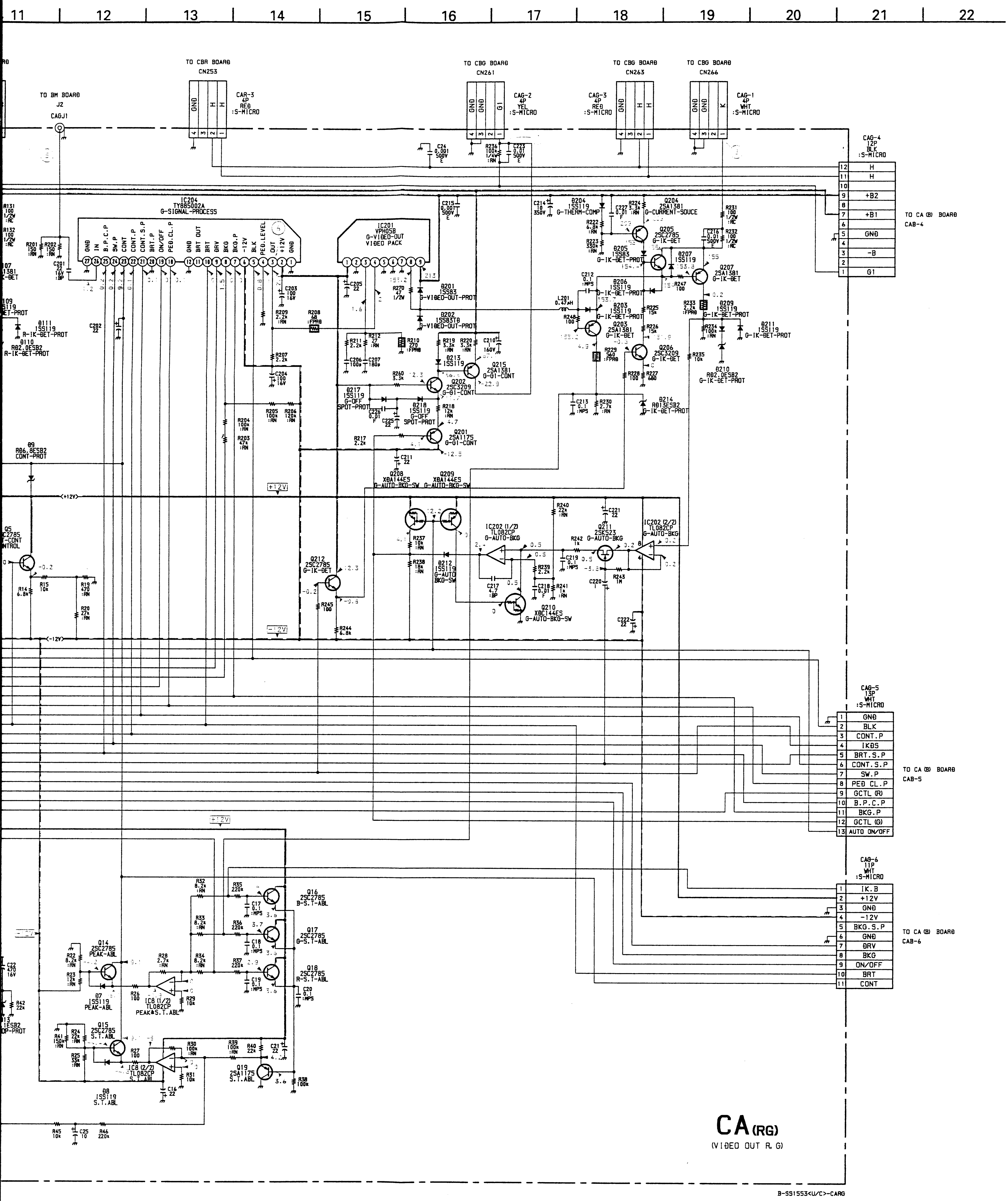
I
J
K
L
M
N
O
TO BM BOARD
J1
CARJ1
TO CBR BOARD
CN251
CAR-2
4P
YEL
:S-MICRO
GND
GND
G1
TO CBR BOARD
CN256
CAR-1
4P
WHT
:S-MICRO
K
TO BM BOARD
J2
CAGJ1
IC104
TY885002A
R-SIGNAL-PROCESS
IC101
VPH05B
R-VIDEO-OUT
VIDEO PACK
Q113
2SC2785
Rγ-CORR
Q101
1SS83
R-VIDEO-OUT-PROT
Q102
1SS83TD
R-VIDEO-OUT-PROT
Q113
1SS119
R-THERM-COMP
Q115
2SA1381
R-G1-CONT
Q102
2SC3209
R-G1-CONT
Q117
1SS119
R-OFF
SPOT-PROT
Q118
1SS119
R-OFF
SPOT-PROT
Q101
2SA1175
R-G1-CONT
Q104
1SS119
R-THERM
COMP
Q104
2SA1381
R-CURRENT-SOURCE
Q105
2SC2785
R-IK-DET
Q105
1SS83
R-IK-DET-PROT
Q107
1SS119
R-IK-DET
PROT
Q107
2SA1381
R-IK-DET
Q103
1SS119
R-IK-DET-PROT
Q103
2SA1381
R-IK-DET
Q106
2SC3209
R-IK-DET
Q109
1SS119
R-IK-DET-PROT
Q111
1SS119
R-IK-DET-PROT
Q110
RD2.0ESB2
R-IK-DET-PROT
Q114
RD13ESB2
R-IK-DET-PROT
Q115
1SS119
Rγ-CORR
Q1
VO6C -12V-REG-PROT
IC1
LM7912CT
-12V-REG
IC2
LM7812CT
+12V-REG
Q2
VO6C
+12V-REG
PROT
Q1
2SC2785
CONTRAST
CONTROL
Q2
XDC144ES
+12V-PROT
Q3
RD5.1ESB2
+12V-PROT
Q3
XDC144ES
+12V-PROT
Q4
1SS119
-12V-PROT
Q4
2SC2785
-12V-PROT
Q108
XBA144ES
R-AUTO-BKG-SW
Q109
XBA144ES
R-AUTO-BKG-SW
IC102 (1/2)
TL082CP
R-AUTO
BKG
IC102 (2/2)
TL082CP
R-AUTO
BKG
Q120
1SS119
R-AUTO
BKG
Q111
2SK523
R-AUTO
BKG
Q112
1SS119
R-AUTO
BKG-SW
Q110
XDC144ES
R-AUTO
BKG-SW
Q121
1SS119
R-AUTO-BKG
Q122
1SS119
R-AUTO
BKG
Q112
2SC2785
R-IK-DET
Q9
RD6.8ESB2
CONT-PROT
Q5
2SC2785
BRT-CONT
CONTROL
CAR-4
GND
GND
+15V
+15V
-15V
-15V
GND
GND
1/2H
+12V PROT
HD
-12V PROT
VD
DRV (B)
DRV (R)
BKG (B)
BKG (R)
ON/OFF (B)
ON/OFF (R)
DRV (G)
BKG (G)
ON/OFF (G)
BLK
CONTRAST
BRT
B.P.C.P
TO CFA BOARD
CFA-1
IC3
NJM78L05A
+5V-REG
IC4
MC74HC4538AN
PULSE-GEN
IC5
MB675429
PULSE-GEN
IC6
MC74HC244AN
PULSE-GEN
IC7 (2/4)
MC74HC00AN
PULSE-GEN
IC7 (3/4)
MC74HC00AN
PULSE-GEN
IC7 (1/4)
MC74HC00AN
PULSE-GEN
IC7 (4/4)
MC74HC00AN
PULSE-GEN
Q10
2SC2785
BLK-P.GEN
Q8
2SA1175
BLK-P.GEN
Q9
2SA1175
BLK-P.GEN
Q11
2SC2785
OFF-SPOT
PROT
Q12
2SA1175
OFF-STOP
PROT
Q14
RD6.8ESB2
OFF-SPOT
PROT
Q15
1SS119
OFF-STOP-PROT
Q12
1SS119
ON-STOP
PROT
Q13
RD5.1ESB2
ON-STOP-PROT
Q14
2SC2785
PEAK-ABL
Q7
1SS119
PEAK-ABL
Q15
2SC2785
S.T.ABL
Q8
1SS119
S.T.ABL
+12V
-12V
+15V
-15V
+5V

CA(RG) BOARD

 1.2Vp-p (H)	 4.4Vp-p (H)	 20Vp-p (H)	 140Vp-p (H)
 20Vp-p (H)	 160Vp-p (H)	 4Vp-p (H)	 4Vp-p (H)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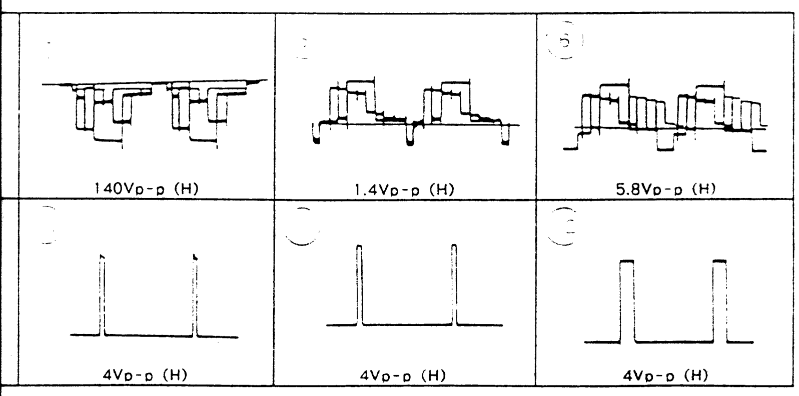
TO BM BOARD J2 CAGJ1
TO CBR BOARD CN253
CAR-3 4P RED :S-MICRO
TO CBG BOARD CN261
CAG-2 4P YEL :S-MICRO
TO CBG BOARD CN263
CAG-3 4P RED :S-MICRO
TO CBG BOARD CN266
CAG-1 4P WHT :S-MICRO
CAG-4 12P BLK :S-MICRO
12 H
11 H
10
9 +B2
8
7 +B1
6
5 GND
4
3 -B
2
1 G1
TO CA (B) BOARD CAB-4
IC204 TY885002A G-SIGNAL-PROCESS
IC201 VPH05B G-VIDEO-OUT VIDEO PACK
IC202 (1/2) TL082CP G-AUTO-BKG
IC202 (2/2) TL082CP G-AUTO-BKG
Q201 2SA1175 G-G1-CONT
Q202 2SC3209 G-G1-CONT
Q203 2SA1381 G-IK-DET
Q204 2SA1381 G-CURRENT-SOUCE
Q205 2SC2785 G-IK-DET
Q206 2SC3209 G-IK-DET
Q207 2SA1381 G-IK-DET
Q208 XBA144ES G-AUTO-BKG-SW
Q209 XBA144ES G-AUTO-BKG-SW
Q210 XBC144ES G-AUTO-BKG-SW
Q211 2SK523 G-AUTO-BKG
Q212 2SC2785 G-IK-DET
Q215 2SA1381 G-G1-CONT
Q5 2SC2785 G-CONT CONTROL
Q14 2SC2785 PEAK-ABL
Q15 2SC2785 S.T.ABL
Q16 2SC2785 B-S.T-ABL
Q17 2SC2785 G-S.T-ABL
Q18 2SC2785 R-S.T-ABL
Q19 2SA1175 S.T.ABL
IC8 (1/2) TL082CP PEAK&S.T.ABL
IC8 (2/2) TL082CP S.T.ABL
+12V
-12V
CAG-5 13P WHT :S-MICRO
1 GND
2 BLK
3 CONT.P
4 IKDS
5 BRT.S.P
6 CONT.S.P
7 SW.P
8 PED CL.P
9 GCTL (R)
10 B.P.C.P
11 BKG.P
12 GCTL (G)
13 AUTO ON/OFF
TO CA (B) BOARD CAB-5
CAG-6 11P WHT :S-MICRO
1 IK.B
2 +12V
3 GND
4 -12V
5 BKG.S.P
6 GND
7 DRV
8 BKG
9 ON/OFF
10 BRT
11 CONT
TO CA (B) BOARD CAB-6

CA(RG)

(VIDEO OUT R, G)

B-SS1553<U/C>-CARG



140Vp-p (H)

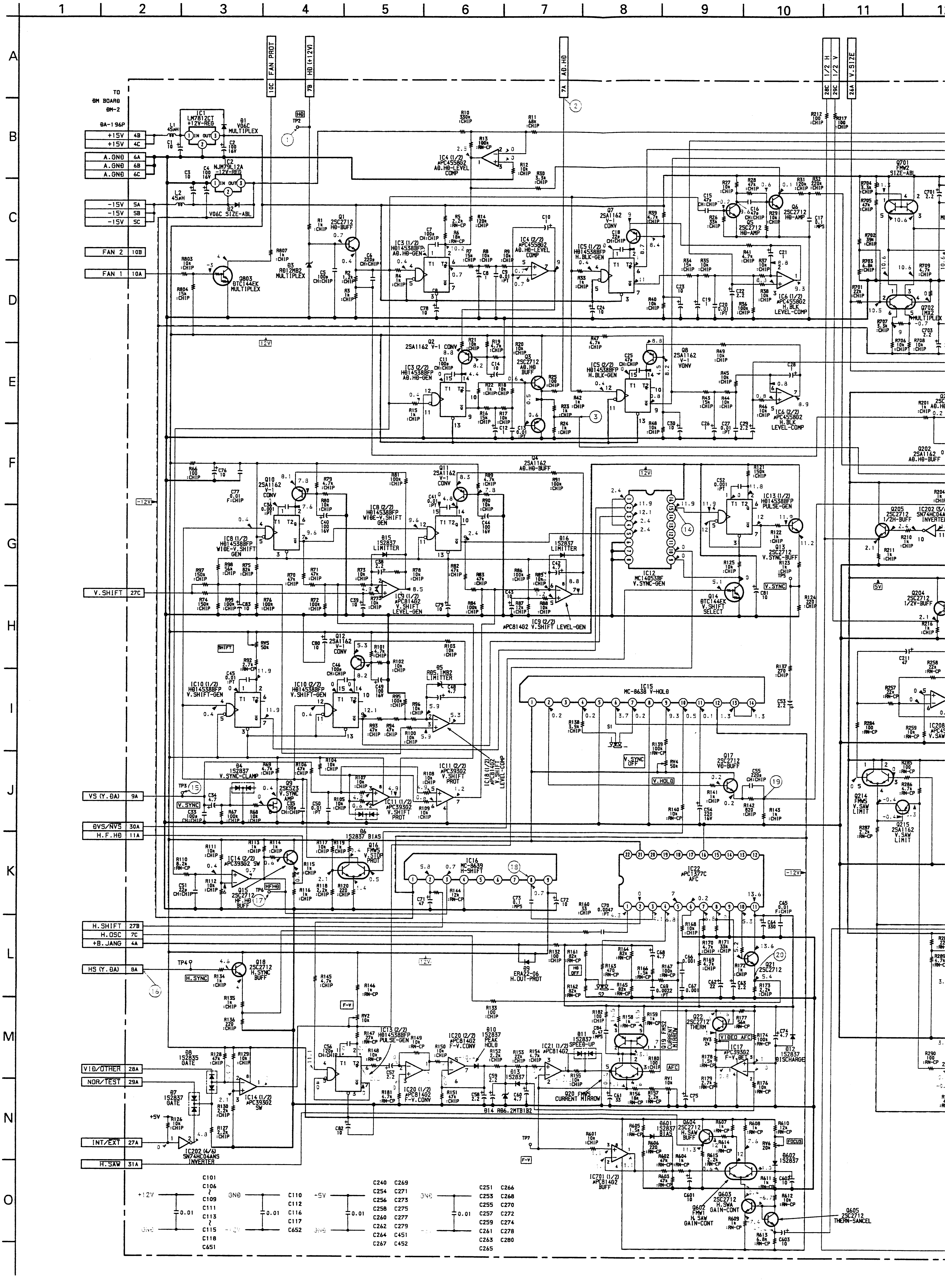
1.4Vp-p (H)

5.8Vp-p (H)

4Vp-p (H)

4Vp-p (H)

4Vp-p (H)



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BM BOARD
BM-2
BA-196P
+15V 4B
+15V 4C
A.GND 6A
A.GND 6B
A.GND 6C
-15V 5A
-15V 5B
-15V 5C
FAN 2 10B
FAN 1 10A
V.SHIFT 27C
VS (Y.DA) 9A
DVS/NVS 30A
H.F.HD 11A
H.SHIFT 27B
H.OSC 7C
+B.JANG 4A
HS (Y.DA) 8A
VID/OTHER 28A
NOR/TEST 29A
INT/EXT 27A
H.SAW 31A
10C FAN PROT
7B HD (+12V)
7A AD.HD
28C 1/2 H
29C 1/2 V
26A V.SIZE
IC1 LM7812CT +12V-REG
D1 V06C MULTIPLEX
IC2 NJM79L12A -12V-REG
V06C SIZE-ABL
Q803 DTC144EK MULTIPLEX
D3 RD12MB2 MULTIPLEX
Q1 2SC2712 HD-BUFF
IC3 (1/2) HD14538BFP AD.HD-GEN
IC4 (1/2) μPC4558G2 AD.HD-LEVEL COMP
IC4 (2/2) μPC4558G2 AD.HD-LEVEL COMP
Q2 2SA1162 V-1 CONV
IC3 (2/2) HD14538BFP AD.HD-GEN
Q3 2SC2712 AD.HD BUFF
Q4 2SA1162 AD.HD-BUFF
Q7 2SA1162 V-1 CONV
IC5 (1/2) HD14538BFP H.BLK-GEN
IC5 (2/2) HD14538BFP H.BLK-GEN
Q8 2SA1162 V-1 VONV
Q5 2SC2712 HD-AMP
Q6 2SC2712 HD-AMP
IC6 (1/2) μPC4558G2 H.BLK LEVEL-COMP
IC6 (2/2) μPC4558G2 H.BLK LEVEL-COMP
Q701 FMW2 SIZE-ABL
Q702 IMX2 MULTIPLEX
Q10 2SA1162 V-1 CONV
IC8 (1/2) HD14538BFP WIDE-V.SHIFT GEN
IC8 (2/2) HD14538BFP WIDE-V.SHIFT GEN
Q11 2SA1162 V-1 CONV
D15 1S2837 LIMITTER
D16 1S2837 LIMITTER
IC9 (1/2) μPC814G2 V.SHIFT LEVEL-GEN
IC9 (2/2) μPC814G2 V.SHIFT LEVEL-GEN
IC12 MC14053BF V.SYNC-GEN
IC13 (1/2) HD14538BFP PULSE-GEN
Q13 2SC2712 V.SYNC-BUFF
Q14 DTC144EK V.SHIFT SELECT
V.SYNC
Q205 2SC2712 1/2H-BUFF
IC202 (3/4) SN74HC04A INVERTER
Q204 2SC2712 1/2V-BUFF
Q202 2SA1162 AD.HD-BUFF
SHIFT
IC10 (1/2) HD14538BFP V.SHIFT-GEN
IC10 (2/2) HD14538BFP V.SHIFT-GEN
Q12 2SA1162 V-1 CONV
D5 RD5.1MB2 LIMITTER
IC11 (2/2) μPC393G2 V.SHIFT PROT
IC11 (1/2) μPC393G2 V.SHIFT PROT
IC18 (1/2) μPC814G2 V.SHIFT LEVEL-COMP
IC15 MC-8638 V-HOLD
S1
V.SYNC OFF
V.HOLD
Q17 2SC2712 VD-BUFF
D4 1S2837 V.SYNC-CLAMP
Q9 2SK523 V.SYNC AMP
IC14 (2/2) μPC393G2 SW
Q15 2SC2712 HF.HD BUFF
HFHD
D6 1S2837 BIAS
Q16 FMW5 V.STOP PROT
IC16 MC-8639 H-SHIFT
IC22 μPC1377C AFC
Q214 FMW5 V.SAW LIMIT
Q215 2SA1162 V.SAW LIMIT
IC208 μPC4 V.SAW
Q18 2SC2712 H.SYNC BUFF
H.SYNC
D9 ERA22-06 H.OUT-PROT
HD OFF
S2
Q21 2SC2712
F-V
IC13 (2/2) HD14538BFP PULSE-GEN
IC20 (2/2) μPC814G2 F-V.CONV
IC20 (1/2) μPC814G2 F-V.CONV
D10 1S2837 PEAK HOLD
D13 1S2837
D14 RD6.2MTB1B2
D11 1S2837 SPEED-UP
IC21 (1/2) μPC814G2
Q19 FMS2 CURRENT MIRROW
Q20 FMW5 CURRENT MIRROW
AFC
Q22 2SC2712 THERM
VIDEO AFC
IC17 μPC393G2 F-V.SET
D12 1S2837 DISCHARGE
D8 1S2835 GATE
D7 1S2837 GATE
IC14 (1/2) μPC393G2 SW
IC202 (4/6) SN74HC04ANS INVERTER
TP7
IC701 (1/2) μPC814G2 BUFF
D601 1S2837 BIAS
Q604 2SC2712 H.SAW BUFF
FOCUS
D602 1S2837
Q603 2SC2712 H.SWA GAIN-CONT
Q602 FMW1 H.SAW GAIN-CONT
Q605 2SC2712 THERN-SANCEL
+12V C101 C106 ~ C109 C111 C113 ~ C115 C118 C651 0.01 GND
C110 C112 C116 C117 C652 0.01 +5V
C240 C254 C256 C258 C260 C262 C264 C267 C269 C271 C273 C275 C277 C279 C451 C452 0.01 GND
C251 C253 C255 C257 C259 C261 C263 C265 C266 C268 C270 C272 C274 C278 C280
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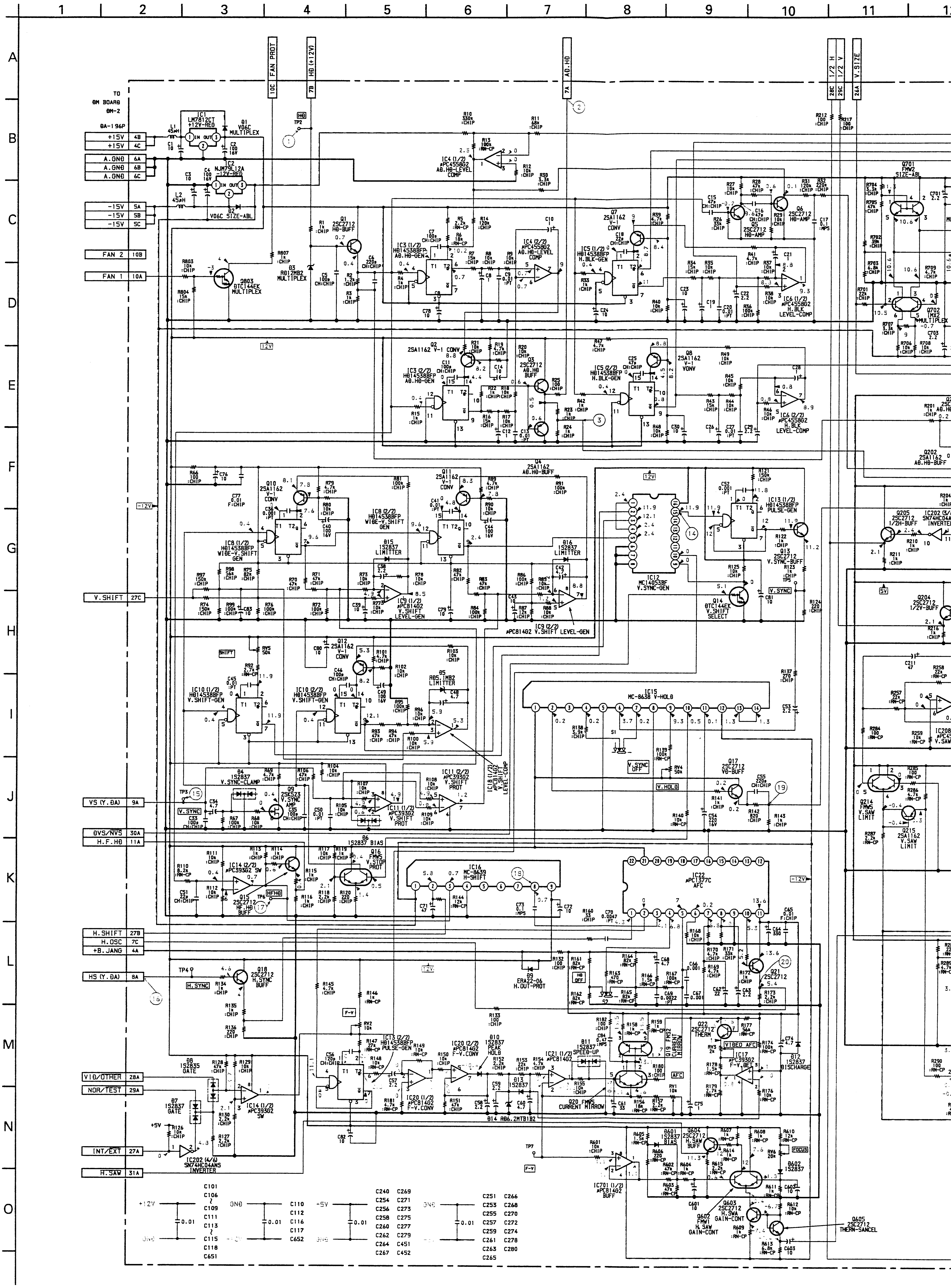
A B C D E F G H I J K L M N O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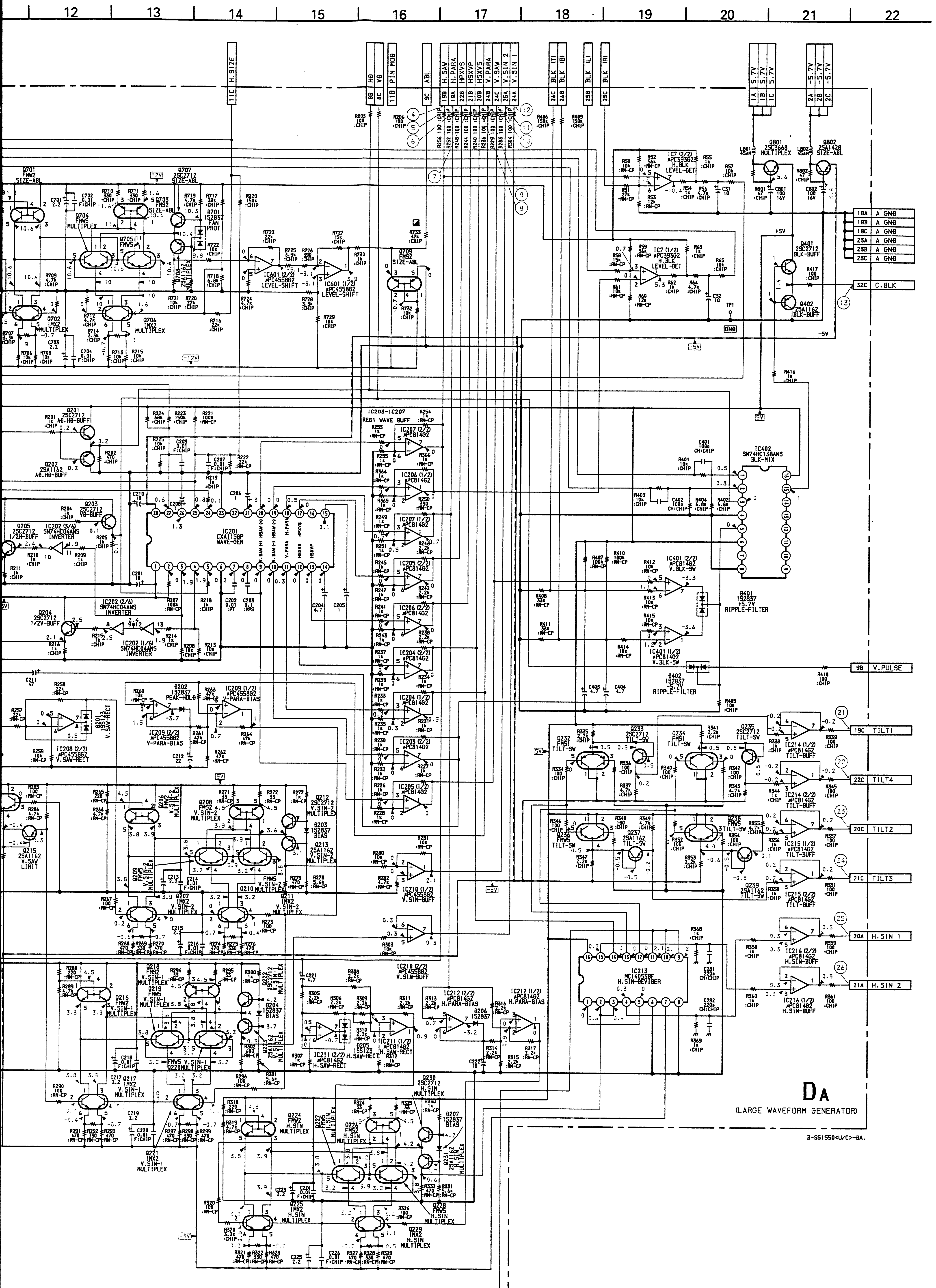
BM BOARD
BM-2
BA-196P
+15V 4B
+15V 4C
A.GND 6A
A.GND 6B
A.GND 6C
-15V 5A
-15V 5B
-15V 5C
FAN 2 10B
FAN 1 10A
V.SHIFT 27C
VS (Y.DA) 9A
DVS/NVS 30A
H.F.HD 11A
H.SHIFT 27B
H.OSC 7C
+B.JANG 4A
HS (Y.DA) 8A
VID/OTHER 28A
NOR/TEST 29A
INT/EXT 27A
H.SAW 31A
10C FAN PROT
7B HD (+12V)
7A AD.HD
28C 1/2 H
29C 1/2 V
26A V.SIZE
IC1 LM7812CT +12V-REG
D1 VD6C MULTIPLEX
IC2 NJM79L12A -12V-REG
D2 VD6C SIZE-ABL
Q803 DTC144EK MULTIPLEX
Q1 2SC2712 HD-BUFF
D3 RD12MB2 MULTIPLEX
IC3 (1/2) HD14538BFP AD.HD-GEN
IC4 (1/2) μPC4558G2 AD.HD-LEVEL COMP
IC4 (2/2) μPC4558G2 AD.HD-LEVEL COMP
Q7 2SA1162 V-I CONV
IC5 (1/2) HD14538BFP H.BLK-GEN
Q5 2SC2712 HD-AMP
Q6 2SC2712 HD-AMP
IC6 (1/2) μPC4558G2 H.BLK LEVEL-COMP
Q2 2SA1162 V-I CONV
IC3 (2/2) HD14538BFP AD.HD-GEN
Q3 2SC2712 AD.HD BUFF
IC5 (2/2) HD14538BFP H.BLK-GEN
Q8 2SA1162 V-I VONV
IC6 (2/2) μPC4558G2 H.BLK LEVEL-COMP
Q4 2SA1162 AD.HD-BUFF
Q10 2SA1162 V-I CONV
IC8 (1/2) HD14538BFP WIDE-V.SHIFT GEN
Q11 2SA1162 V-I CONV
IC8 (2/2) HD14538BFP WIDE-V.SHIFT GEN
D15 1S2837 LIMITTER
D16 1S2837 LIMITTER
IC9 (1/2) μPC81402 V.SHIFT LEVEL-GEN
IC9 (2/2) μPC81402 V.SHIFT LEVEL-GEN
IC12 MC14053BF V.SYNC-GEN
IC13 (1/2) HD14538BFP PULSE-GEN
Q13 2SC2712 V.SYNC-BUFF
Q14 DTC144EK V.SHIFT SELECT
Q12 2SA1162 V-I CONV
IC10 (1/2) HD14538BFP V.SHIFT-GEN
IC10 (2/2) HD14538BFP V.SHIFT-GEN
D5 RD5.1MB2 LIMITTER
IC18 (1/2) μPC81402 V.SHIFT LEVEL-COMP
IC15 MC-8638 V-HOLD
Q17 2SC2712 VD-BUFF
D4 1S2837 V.SYNC-CLAMP
Q9 2SK523 V.SYNC AMP
IC11 (1/2) μPC393G2 V.SHIFT PROT
IC11 (2/2) μPC393G2 V.SHIFT PROT
D6 1S2837 BIAS
Q16 FMW5 V.STOP PROT
IC14 (2/2) μPC393G2 SW
Q15 2SC2712 HF.HD BUFF
IC16 MC-8639 H-SHIFT
IC22 μPC1377C AFC
Q18 2SC2712 H.SYNC BUFF
D9 ERA22-06 H.OUT-PROT
Q21 2SC2712
D8 1S2835 GATE
D7 1S2837 GATE
IC14 (1/2) μPC393G2 SW
IC202 (4/6) SN74HC04ANS INVERTER
IC13 (2/2) HD14538BFP PULSE-GEN
IC20 (2/2) μPC81402 F-V.CONV
IC20 (1/2) μPC81402 F-V.CONV
D10 1S2837 PEAK HOLD
D14 RD6.2MTB1B2
D11 1S2837 SPEED-UP
IC21 (1/2) μPC81402
Q20 FMW5 CURRENT MIRROW
Q19 FMW2 CURRENT MIRROW
Q22 2SC2712 THERM
IC17 μPC393G2 F-V.DET
D12 1S2837 DISCHARGE
IC701 (1/2) μPC81402 BUFF
D601 1S2837 BIAS
Q604 2SC2712 H.SAW BUFF
D602 1S2837
Q603 2SC2712 H.SWA GAIN-CONT
Q602 FMW1 H.SAW GAIN-CONT
Q605 2SC2712 THERN-SANCEL
Q701 FMW2 SIZE-ABL
Q702 IMX2 MULTIPLEX
Q202 2SA1162 AD.HD-BUFF
Q205 2SC2712 1/2H-BUFF
IC202 (3/ SN74HC04A INVERTE
Q204 2SC2712 1/2V-BUFF
Q214 FMW5 V.SAW LIMIT
Q215 2SA1162 V.SAW LIMIT
IC208 μPC4 V.SAW
HD TP2
SHIFT
V.SYNC
HFHD
H.SYNC
TP4
TP7
F-V
V.SYNC OFF
V.HOLD
HD OFF
VIDEO AFC
AFC
FOCUS
12V
-12V
5V
+5V
+12V GND
C101 C106 ~ C109 C111 C113 ~ C115 C118 C651 0.01
GND C110 C112 C116 C117 C652 0.01
+5V C240 C254 C256 C258 C260 C262 C264 C267
C269 C271 C273 C275 C277 C279 C451 C452
GND C251 C253 C255 C257 C259 C261 C263 C265 0.01
C266 C268 C270 C272 C274 C278 C280
1 2 3 4 5 6 7 8 9 10 11
A B C D E F G H I J K L M N O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14
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17
18
19
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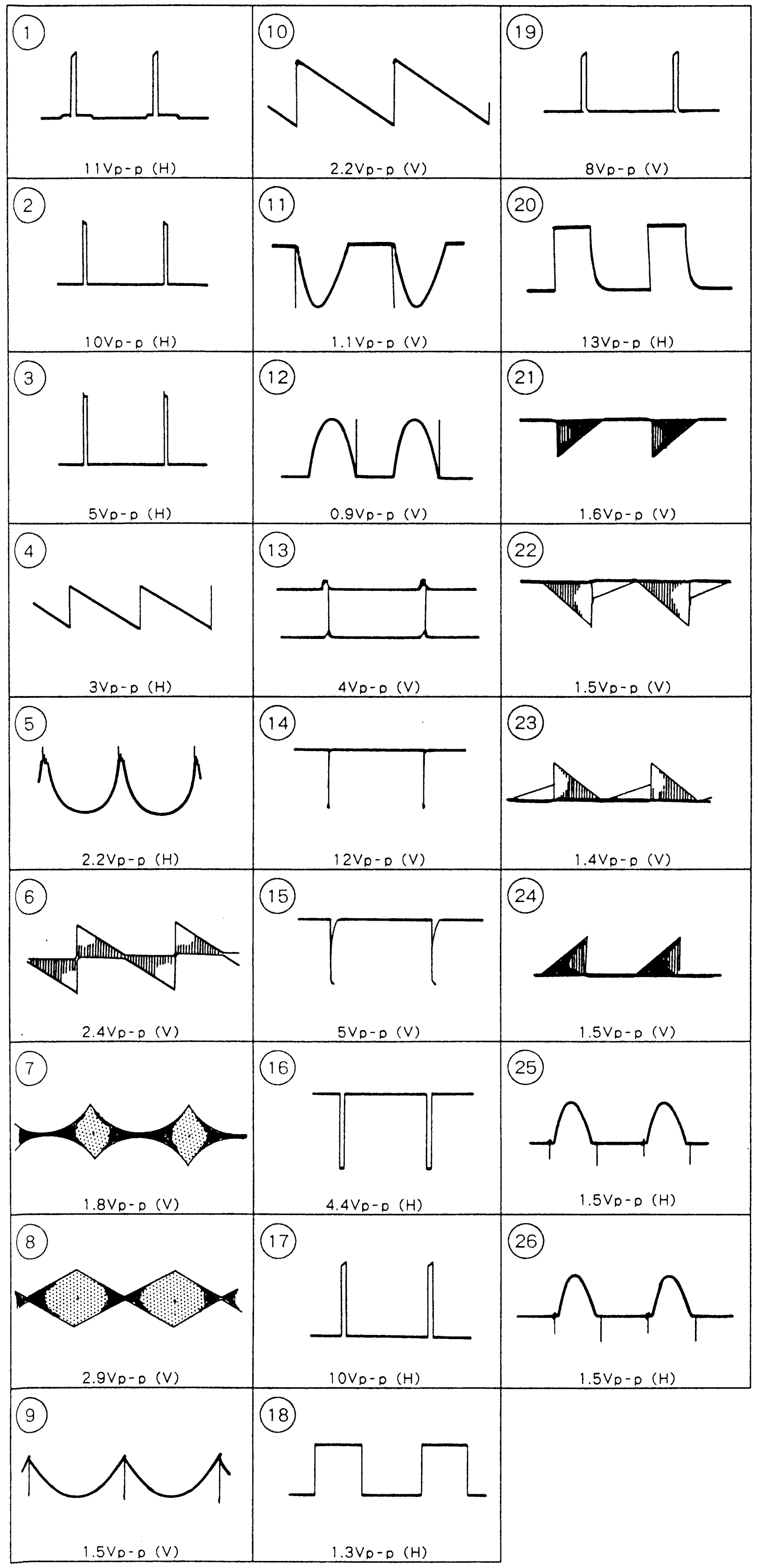
21
22
11C H.SIZE
8B HD
8C VD
11B PIN MOD
9C ABL
19B H.SAW
19A H.PARA
22B HPXVS
21B HSXVP
20B HSXVS
24B V.PARA
24C V.SAW
25A V.SIN 2
24A V.SIN 1
26C BLK (T)
26B BLK (B)
25B BLK (L)
25C BLK (R)
1A 5.7V
1B 5.7V
1C 5.7V
2A -5.7V
2B -5.7V
2C -5.7V
18A A GND
18B A GND
18C A GND
23A A GND
23B A GND
23C A GND
32C C.BLK
9B V.PULSE
19C TILT1
22C TILT4
20C TILT2
21C TILT3
20A H.SIN 1
21A H.SIN 2
Q701 FMW2 SIZE-ABL
Q707 2SC2712 SIZE-ABL
Q703 FMS2 SIZE-ABL
Q704 FMW5 MULTIPLEX
Q705 FMS1
D701 1S2837 FAN PROT
Q702 IMX2 MULTIPLEX
Q706 IMX2 MULTIPLEX
IC601 (2/2) μPC4558G2 LEVEL-SHIFT
IC601 (1/2) μPC4558G2 LEVEL-SHIFT
Q709 FMS2 SIZE-ABL
IC7 (2/2) μPC3936G2 H.BLK LEVEL-BET
IC7 (1/2) μPC3936G2 H.BLK LEVEL-BET
Q801 2SC3668 MULTIPLEX
Q802 2SA1428 SIZE-ABL
Q401 2SC2712 BLK-BUFF
Q402 2SA1162 BLK-BUFF
Q201 2SC2712 A0.HB-BUFF
Q202 2SA1162 A0.HB-BUFF
Q203 2SC2712 VD-BUFF
Q205 2SC2712 1/2H-BUFF
IC202 (3/6) SN74HC04ANS INVERTER
IC201 CXA1158P WAVE-GEN
IC202 (2/6) SN74HC04ANS INVERTER
Q204 2SC2712 1/2V-BUFF
IC202 (1/6) SN74HC04ANS INVERTER
IC203-IC207 REG1 WAVE BUFF
IC207 (2/2) μPC814G2
IC206 (1/2) μPC814G2
IC207 (1/2) μPC814G2
IC205 (2/2) μPC814G2
IC206 (2/2) μPC814G2
IC204 (2/2) μPC814G2
IC204 (1/2) μPC814G2
IC203 (2/2) μPC814G2
IC205 (1/2) μPC814G2
IC402 SN74HC138ANS BLK-MIX
IC401 (2/2) μPC814G2 V.BLK-SW
IC401 (1/2) μPC814G2 V.BLK-SW
D401 1S2837 +5.7V RIPPLE-FILTER
D402 1S2837 -5.7V RIPPLE-FILTER
D202 1S2837 PEAK-HOLD
IC209 (1/2) μPC4558G2 V-PARA-BIAS
IC209 (2/2) μPC4558G2 V-PARA-BIAS
IC208 (2/2) μPC4558G2 V.SAW-RECT
D201 1S2837 V.SAW-RECT
Q232 FMS1 TILT-SW
Q233 2SC2712 TILT-SW
Q234 FMS1 TILT-SW
Q235 2SC2712 TILT-SW
IC214 (1/2) μPC814G2 TILT-BUFF
IC214 (2/2) μPC814G2 TILT-BUFF
Q236 FMW5 TILT-SW
Q237 2SA1162 TILT-SW
Q238 FMW5 TILT-SW
Q239 2SA1162 TILT-SW
IC215 (1/2) μPC814G2 TILT-BUFF
IC215 (2/2) μPC814G2 TILT-BUFF
IC216 (1/2) μPC814G2 H.SIN-BUFF
IC216 (2/2) μPC814G2 H.SIN-BUFF
IC213 MC14053BF H.SIN-DEVIDER
Q215 2SA1162 V.SAW LIMIT
Q206 FMS2 V.SIN-2 MULTIPLEX
Q208 FMS2 V.SIN-2 MULTIPLEX
Q212 2SC2712 MULTIPLEX
D203 1S2837 BIAS
Q213 2SA1162 V.SIN-2 MULTIPLEX
Q209 FMW2 V.SIN-2
Q210 FMW5 V.SIN-2 MULTIPLEX
Q207 IMX2 V.SIN-2 MULTIPLEX
Q211 IMX2 V.SIN-2 MULTIPLEX
IC210 (1/2) μPC4558G2 V.SIN-BUFF
IC210 (2/2) μPC4558G2 V.SIN-BUFF
Q216 FMW2 V.SIN-1 MULTIPLEX
Q218 FMS2 V.SIN-1 MULTIPLEX
Q219 FMW5 MULTIPLEX
Q222 V.SIN-1 MULTIPLEX
D204 1S2837 BIAS
Q223 V.SIN-1 MULTIPLEX
Q220 FMW5 V.SIN-1 MULTIPLEX
Q217 IMX2 V.SIN-1 MULTIPLEX
Q221 IMX2 V.SIN-1 MULTIPLEX
IC211 (2/2) μPC814G2 H.SAW-RECT
IC211 (1/2) μPC814G2 H.SAW-RECT
D205 1SS123
IC212 (2/2) μPC814G2 H.PARA-BIAS
D206 1S2837
IC212 (1/2) μPC814G2 H.PARA-BIAS
Q230 2SC2712 H.SIN MULTIPLEX
Q224 FMW2 H.SIN MULTIPLEX
Q226 FMS2 H.SIN MULTIPLEX
Q227 FMW2 H.SIN MULTIPLEX
D207 1S2837 BIAS
Q231 2SA1162 H.SIN MULTIPLEX
Q225 IMX2 H.SIN MULTIPLEX
Q228 FMW5 H.SIN MULTIPLEX
Q229 IMX2 H.SIN MULTIPLEX
DA
(LARGE WAVEFORM GENERATOR)
B-SS1550<U/C>-8A.

DA [LARGE WAVEFORM GENERATOR]

DA BOARD



DA BOARD (COMPONENT SIDE)

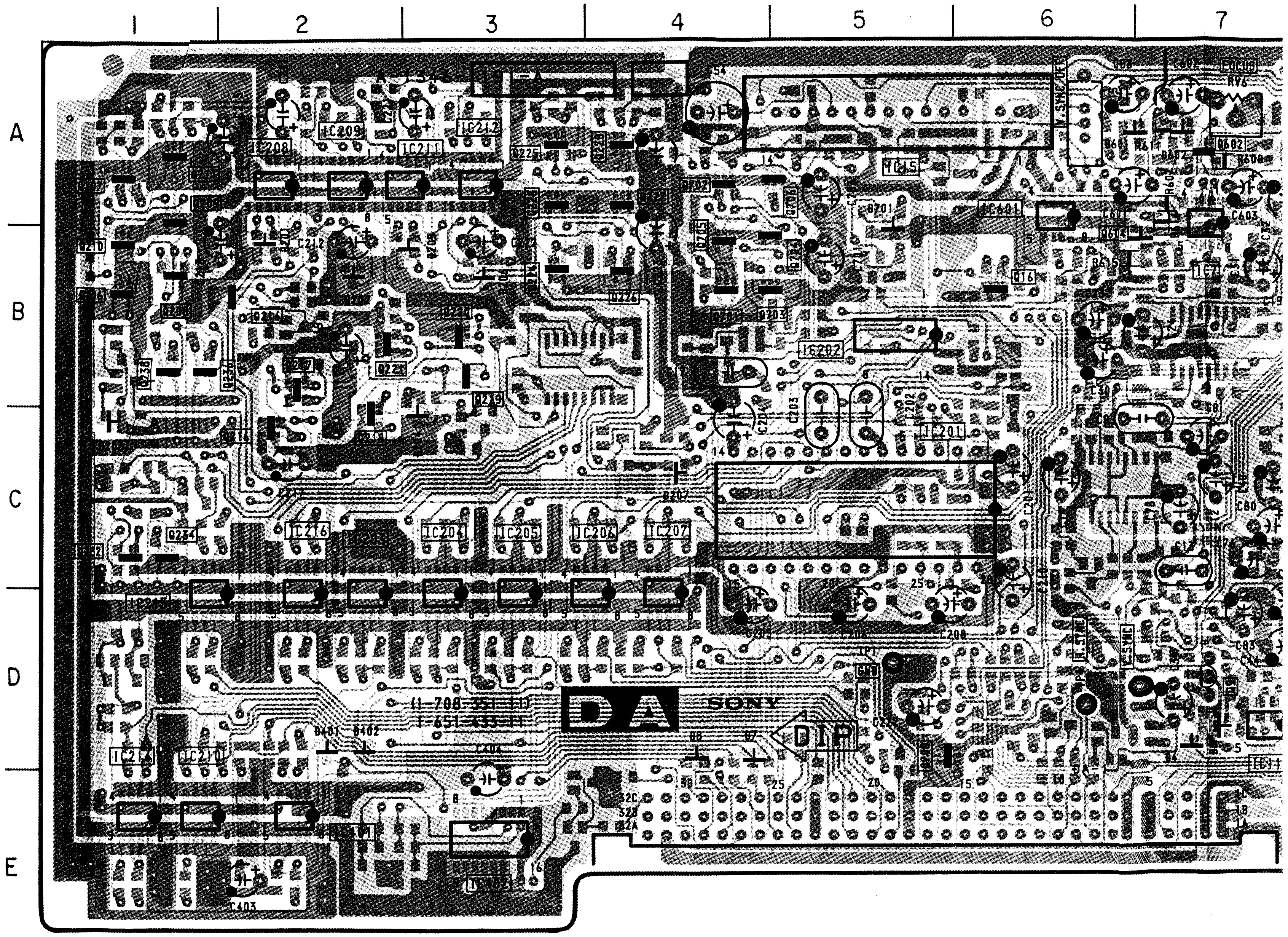
IC	
IC1	E-8
IC2	E-10
IC4	A-9
IC6	A-8
IC7	B-7
IC9	C-9
IC11	D-7
IC12	B-10
IC14	A-10
IC15	A-5
IC16	D-9
IC17	E-9
IC18	C-9
IC20	C-9
IC21	D-9
IC22	D-9
IC201	C-5
IC202	B-5
IC203	D-2
IC204	D-3
IC205	D-3
IC206	D-4
IC207	D-4
IC208	A-2
IC209	A-2
IC210	E-1
IC211	A-3
IC212	A-3
IC214	E-1
IC215	D-1
IC216	C-2
IC401	E-2
IC402	E-3
IC601	A-6
IC701	E-10

TRANSISTOR	
Q9	E-7
Q16	B-6
Q19	C-10
Q20	C-10
Q22	E-9
Q206	B-1
Q207	A-1
Q208	B-1
Q209	A-1
Q210	B-1
Q211	A-1
Q214	B-2
Q216	C-2
Q217	B-2
Q218	C-2
Q219	B-3
Q220	B-3
Q221	B-2
Q224	B-3
Q225	A-3
Q226	B-4
Q227	A-4
Q228	A-3
Q229	A-4
Q232	C-1
Q234	C-1
Q236	B-1
Q238	B-1
Q602	A-7
Q604	B-7
Q701	B-4
Q702	A-4
Q703	B-5
Q704	B-5
Q705	B-4
Q706	A-5
Q709	D-5
Q801	A-9
Q802	E-8

DIODE	
D1	E-9
D2	E-10
D3	A-9
D4	D-7
D5	B-9
D6	D-7
D7	D-4
D8	D-4
D9	E-8
D10	C-9
D12	E-9
D201	B-2
D202	B-2
D203	C-1
D204	C-3
D205	B-3
D206	B-3
D207	C-4
D401	D-2
D402	D-2
D601	A-7
D602	A-7
D701	B-5

VARIABLE RESISTOR	
RV1	A-9
RV2	A-9
RV3	A-8
RV4	A-8
RV5	A-8
RV6	A-7

– DA BOARD – <Component Side>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A
B
C
D
E
IC208
IC209
IC211
IC212
IC601
IC202
IC201
IC216
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IC204
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IC206
IC207
IC214
IC210
IC402
DA
SONY
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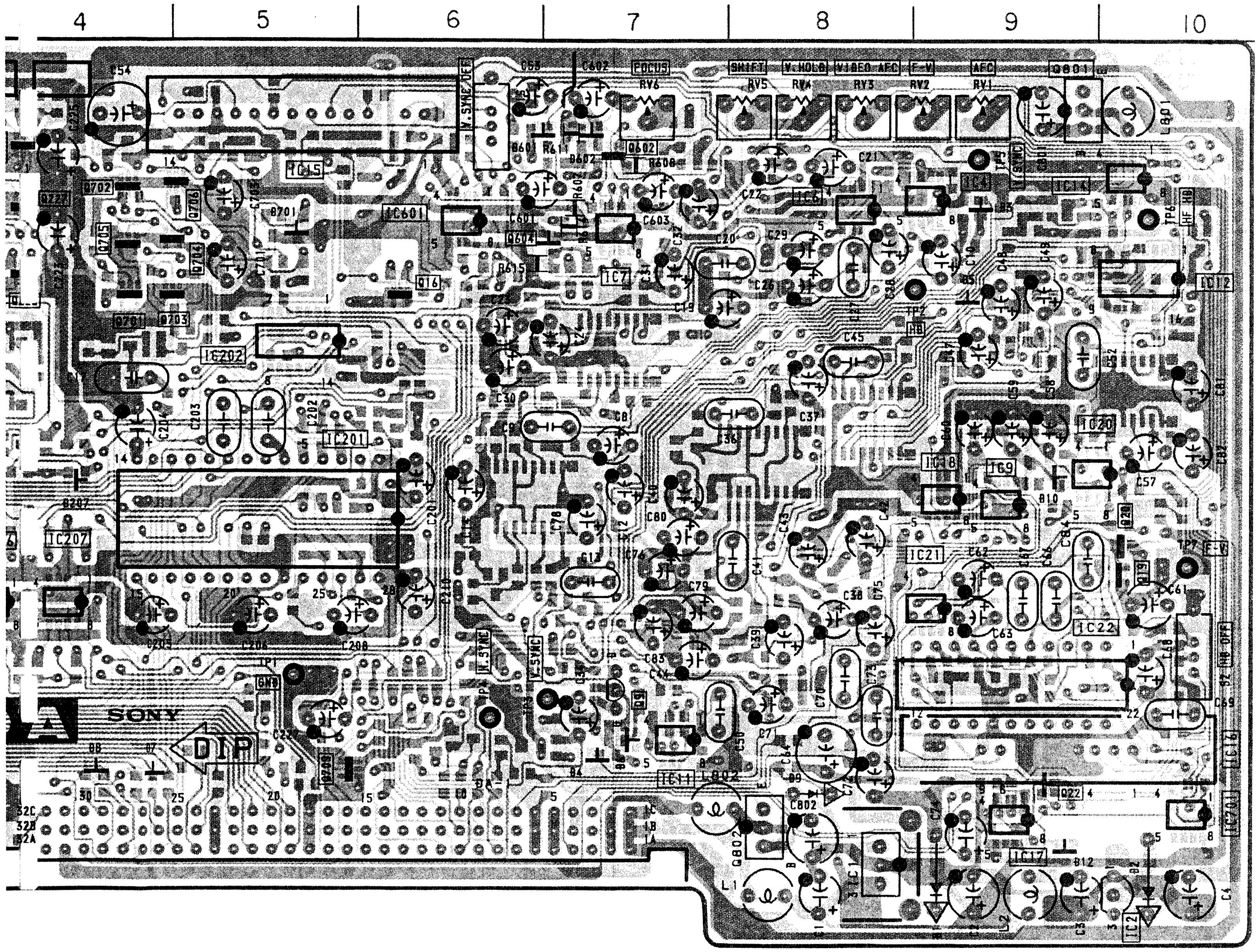
1-651-433-11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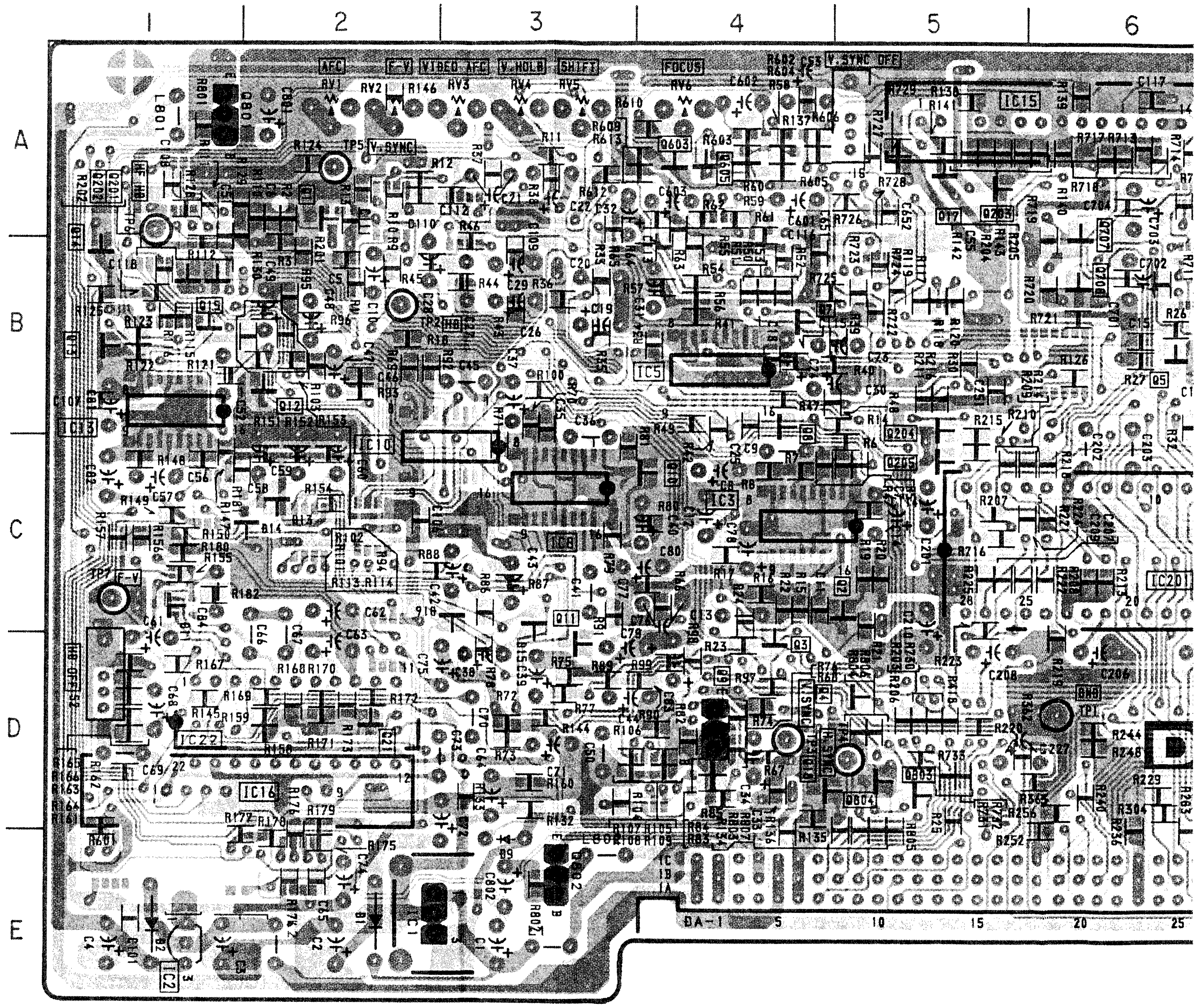
9
10
FOCUS
SHIFT
V.HOLD
VIDEO AFC
F-V
AFC
V.SYNC OFF
H.SYNC
C.SYNC
HF HB
HB OFF
SONY
DIP
GND
TP1
TP2
TP4
TP7
IC2
IC5
IC7
IC11
IC14
IC15
IC17
IC18
IC20
IC21
IC22
IC201
IC202
IC207
IC601
IC701
Q801
Q802
L1
L802

<Conductor Side>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2
3
4
5
6
A
B
C
D
E
AFC
F-V
VIDEO AFC
V.HOLD
SHIFT
FOCUS
V.SYNC OFF
V.SYNC
HF HB
HB OFF
F-V
TP1
TP2
TP5
TP7
IC2
IC3
IC5
IC8
IC10
IC13
IC15
IC16
IC22
L801
Q801
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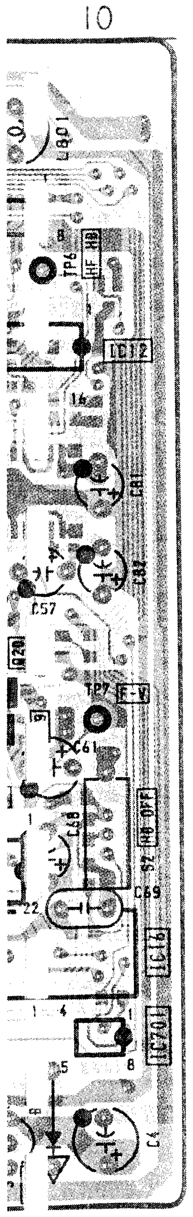
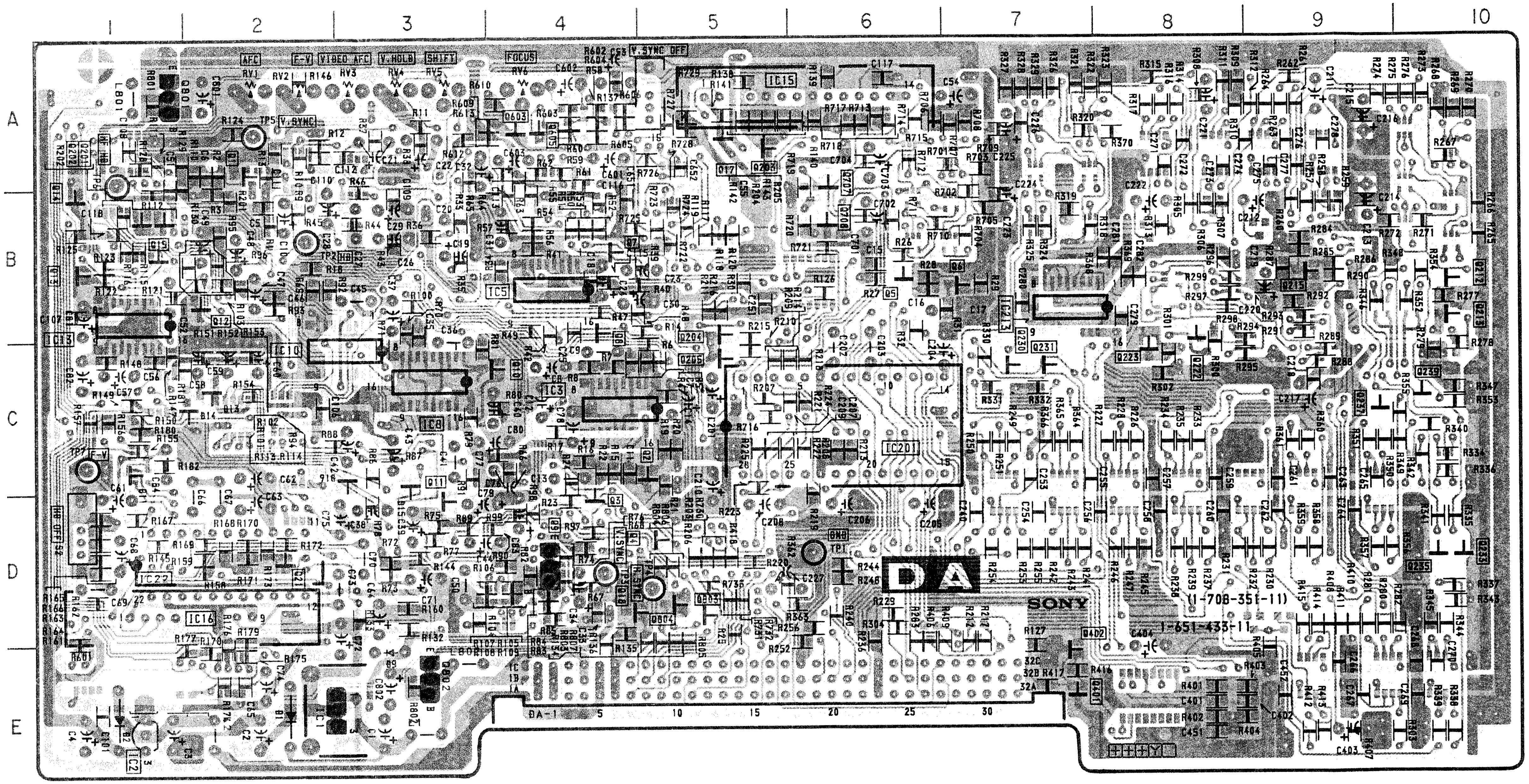
Q603
Q804
C802
R801
R802


10
IC12
TP7
F-V
HB OFF
IC21
IC701
IC2

<Conductor Side>


1
2
3
4
5
6
7
8
9
10
A
B
C
D
E
AFC
F-V
VIDEO AFC
V.HOLD
SHIFT
FOCUS
V.SYNC OFF
RV1
RV2
RV3
RV4
RV5
RV6
TP5
V.SYNC
TP2
HB
IC15
IC13
IC5
IC10
IC3
IC8
IC201
IC213
IC16
IC22
IC1
TP1
DA
SONY
1-651-433-11
(1-708-351-11)
DA-1
5
10
15
20
25
30

DA BOARD
(CONDUCTOR SIDE)

IC	
IC1	E-2
IC2	E-1
IC3	C-4
IC5	B-4
IC8	C-3
IC10	C-2
IC13	B-1
IC15	A-5
IC16	D-2
IC22	D-1
IC201	C-6
IC213	B-7

TRANSISTOR	
Q1	A-2
Q2	C-5
Q3	D-4
Q4	D-5
Q5	B-6
Q6	B-7
Q7	B-4
Q8	B-4
Q9	D-4
Q10	C-4
Q11	C-3
Q12	B-2
Q13	B-1
Q14	B-1
Q15	B-1
Q17	A-5
Q18	D-4
Q21	D-2
Q201	B-1
Q202	B-1
Q203	A-5
Q204	B-5
Q205	C-5
Q212	B-10
Q213	B-10
Q215	B-9
Q222	C-8
Q223	C-8
Q230	C-7
Q231	C-7
Q233	D-10
Q235	D-10
Q237	C-9
Q239	C-10
Q401	E-7
Q402	E-7
Q603	A-4
Q605	A-4
Q707	B-6
Q708	B-6
Q801	A-1
Q802	E-3
Q803	D-5

DIODE	
D1	E-2
D2	E-1
D9	E-3
D11	C-1
D13	C-2
D15	D-3
D16	C-3

VARIABLE RESISTOR	
RV1	A-2
RV2	A-2
RV3	A-3
RV4	A-3
RV5	A-3
RV6	A-4

- : Pattern from the side which enables seeing.
- ▨ : Pattern of the rear side.

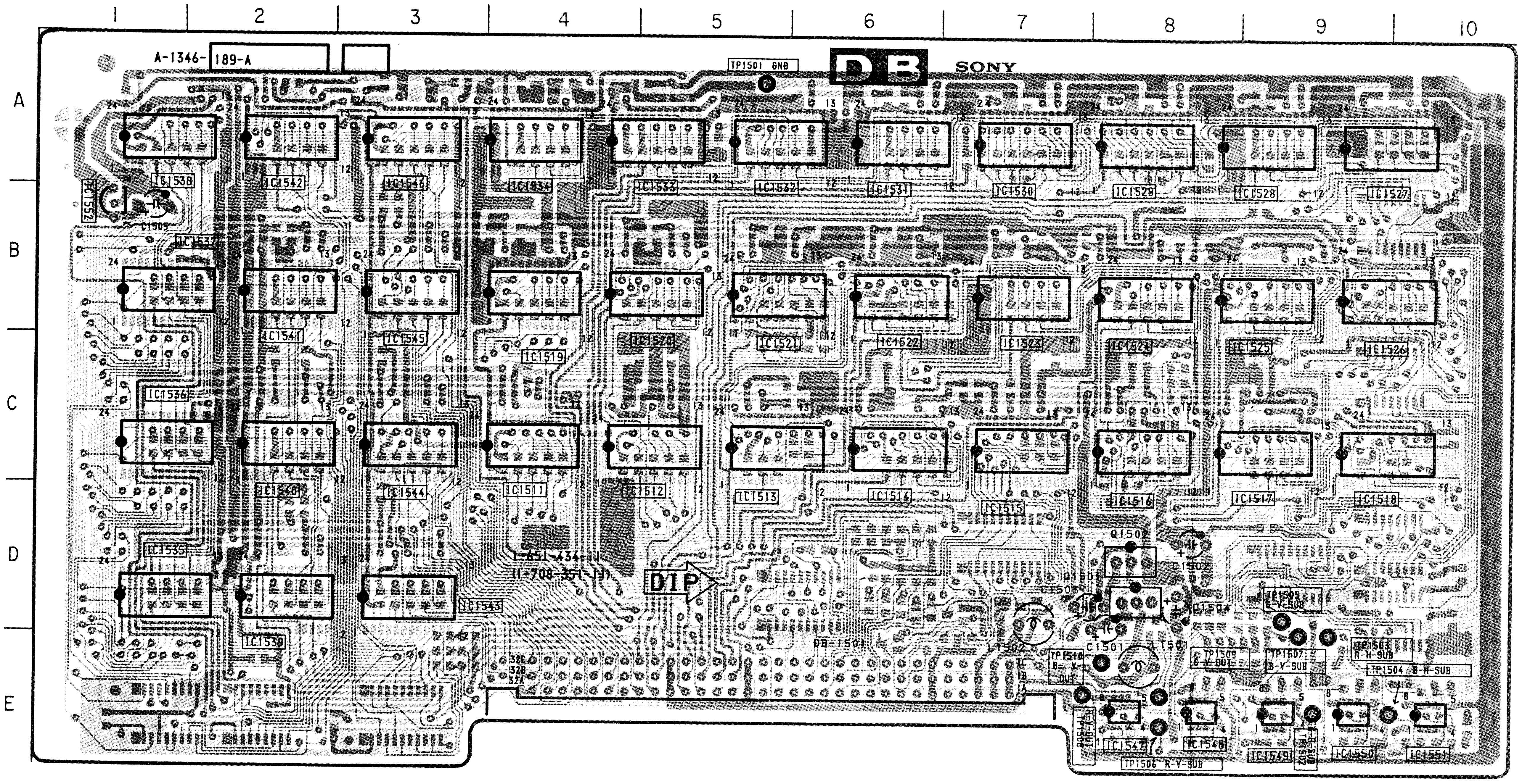
DB [ELECTRONIC VR]

**DB BOARD
(COMPONENT SIDE)**

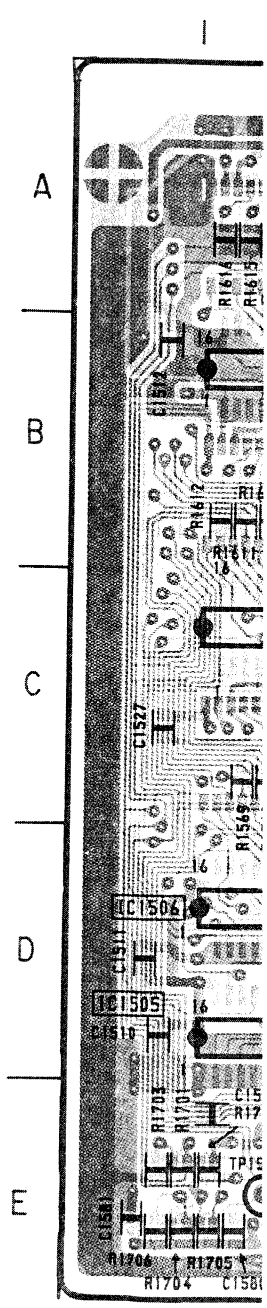
IC	
IC1511	C-4
IC1512	C-5
IC1513	C-5
IC1514	C-6
IC1515	C-7
IC1516	C-8
IC1517	C-9
IC1518	C-10
IC1519	B-4
IC1520	B-5
IC1521	B-5
IC1522	B-6
IC1523	B-7
IC1524	B-8
IC1525	B-9
IC1526	B-10
IC1527	A-10
IC1528	A-9
IC1529	A-8
IC1530	A-7
IC1531	A-6
IC1532	A-5
IC1533	A-5
IC1534	A-4
IC1535	D-1
IC1536	C-1
IC1537	B-1
IC1538	A-1
IC1539	D-2
IC1540	C-2
IC1541	B-2
IC1542	A-2
IC1543	D-3
IC1544	C-3
IC1545	B-3
IC1546	A-3
IC1547	E-8
IC1548	E-8
IC1549	E-9
IC1550	E-9
IC1551	E-10
IC1552	B-1

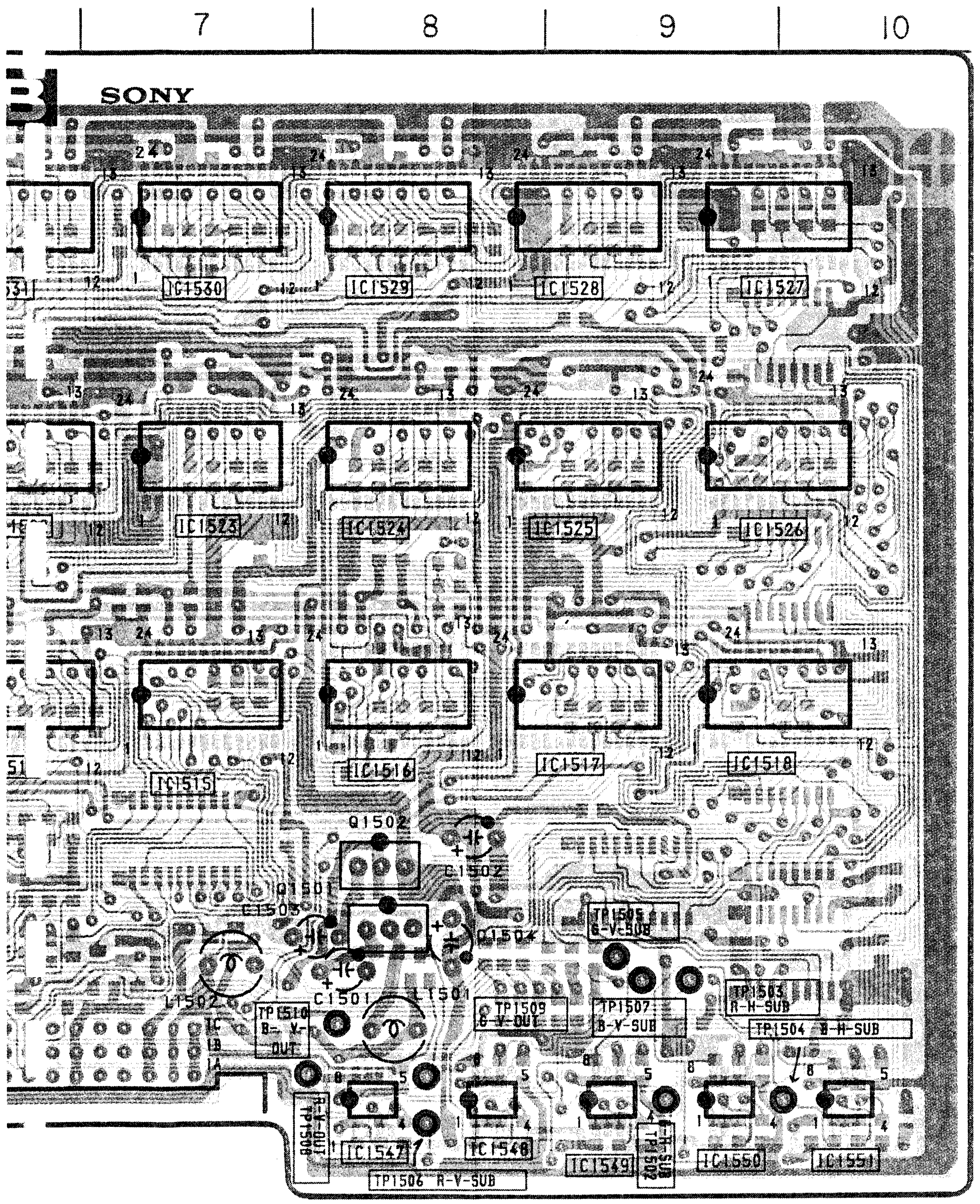
TRANSISTOR	
Q1501	D-8
Q1502	D-8

– DB BOARD – <Component Side>

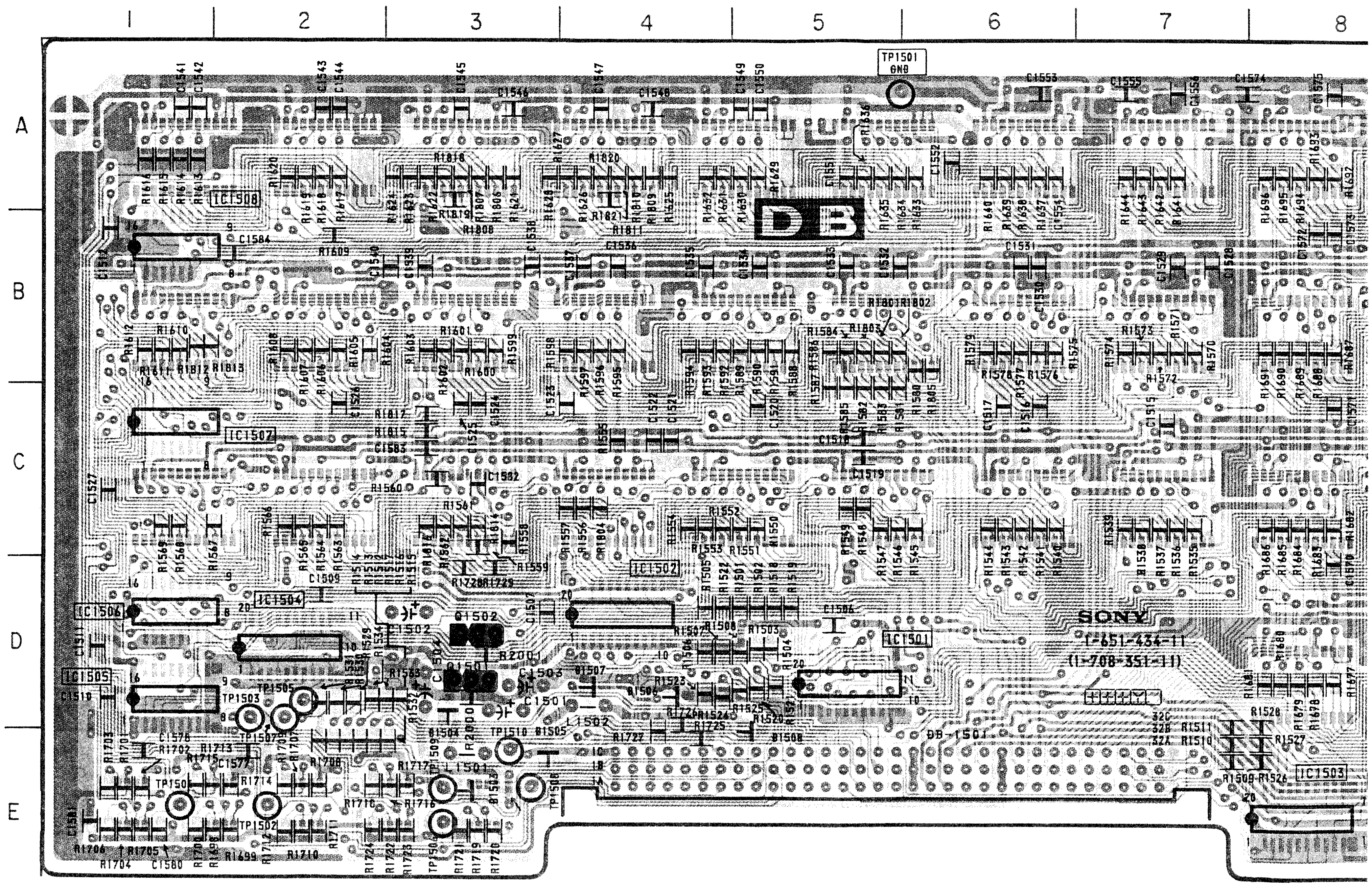

1
2
3
4
5
6
7
8
9
10
A
B
C
D
E
A-1346-189-A
TP1501 GND
DB
SONY
IC1538
IC1542
IC1546
IC1534
IC1533
IC1532
IC1531
IC1530
IC1529
IC1528
IC1527
IC1552
C1505
IC1537
IC1541
IC1545
IC1519
IC1520
IC1521
IC1522
IC1523
IC1524
IC1525
IC1526
IC1536
IC1540
IC1544
IC1511
IC1512
IC1513
IC1514
IC1515
IC1516
IC1517
IC1518
IC1535
IC1539
IC1543
1-651-434-11
(1-708-351-11)
DIP
32C
32B
32A
DB-1501
Q1502
C1502
Q1501
C1503
Q1504
L1502
C1501
L1501
TP1510 B-V-OUT
TP1508 R-V-OUT
TP1509 G-V-OUT
TP1507 B-V-SUB
TP1505 G-V-SUB
TP1503 R-H-SUB
TP1504 B-H-SUB
TP1502 G-H-SUB
TP1506 R-V-SUB
IC1547
IC1548
IC1549
IC1550
IC1551
24
13
12
1
8
5
4

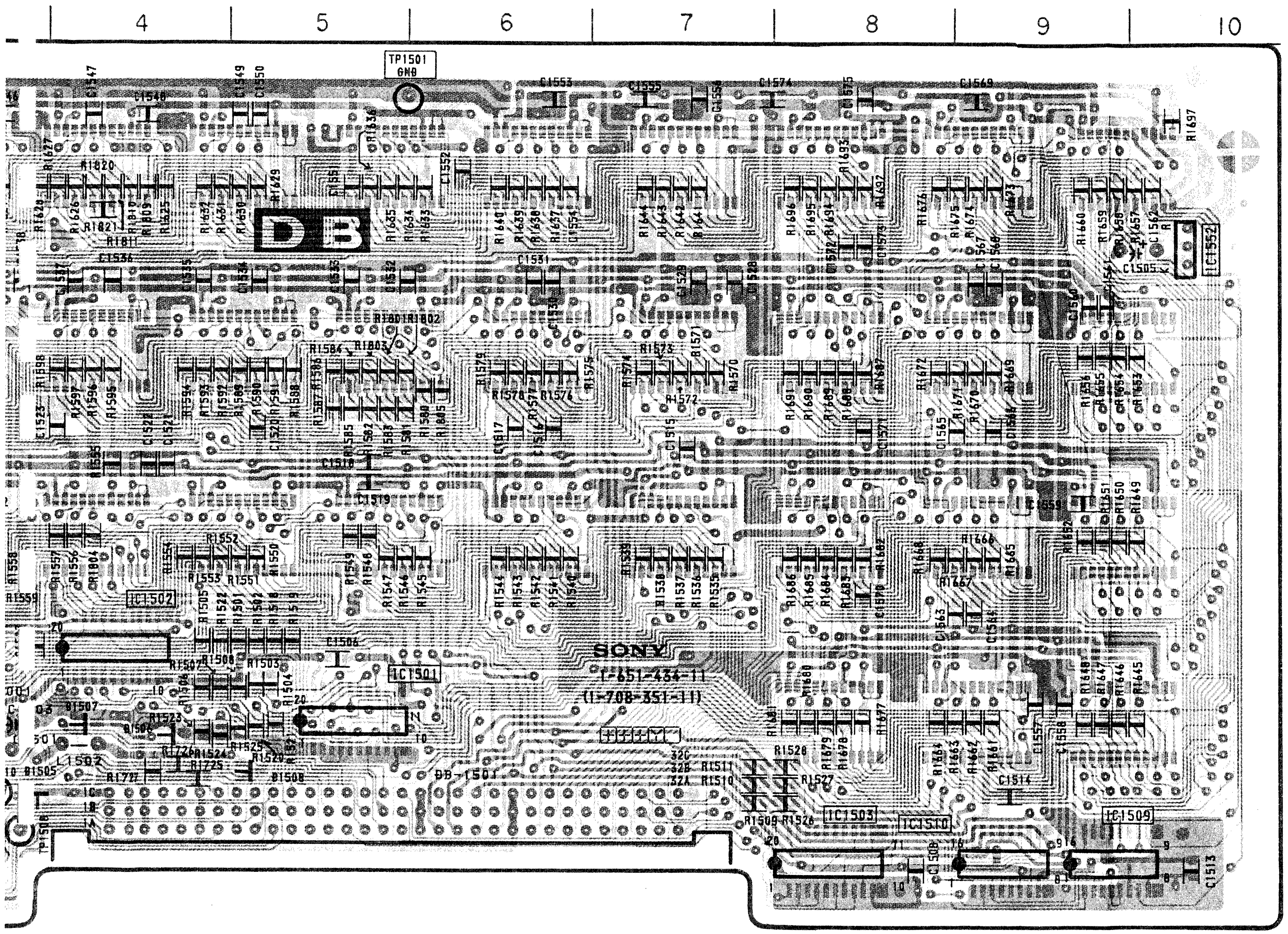
<Condu


1
A
B
C
D
E
IC1506
IC1505
R1706
R1705
R1704
R1703
R1701
C1527
R1569


7
8
9
10
SONY
IC1530
IC1529
IC1528
IC1527
IC1523
IC1524
IC1525
IC1526
IC1515
IC1516
IC1517
IC1518
Q1502
C1502
Q1504
R1501
C1503
C1501
L1501
L1502
TP1505 B-V-SUB
TP1510 B-V-OUT
TP1509 G-V-OUT
TP1507 B-V-SUB
TP1503 R-H-SUB
TP1504 B-H-SUB
TP1506 R-V-SUB
TP1508
TP1502
IC1547
IC1548
IC1549
IC1550
IC1551

<Conductor Side>


1
2
3
4
5
6
7
8
A
B
C
D
E
TP1501 GND
DB
IC1508
IC1507
IC1506
IC1505
IC1504
IC1502
IC1501
IC1503
Q1502
Q1501
C1502
C1503
C1504
L1501
L1502
TP1501
TP1502
TP1503
TP1505
TP1507
TP1510
TP1508
TP1506
SONY
1-651-434-11
(1-708-351-11)
DB-1501


4
5
6
7
8
9
10
TP1501
GND
DB
SONY
1-651-434-11
(1-708-351-11)
IC1501
IC1502
IC1503
IC1509
IC1510
IC1552
DB-1501

• ▨ : Pattern from the side which enables seeing.

• ▨ : Pattern of the rear side.

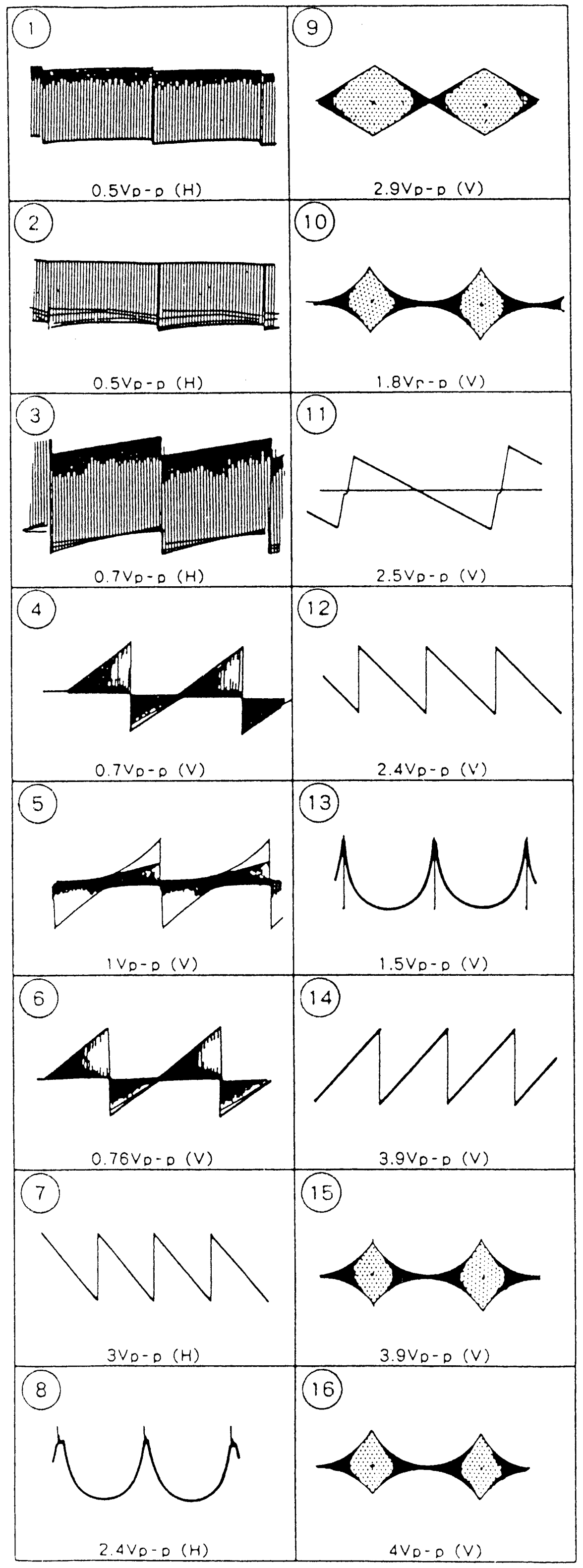
DB BOARD (CONDUCTOR SIDE)

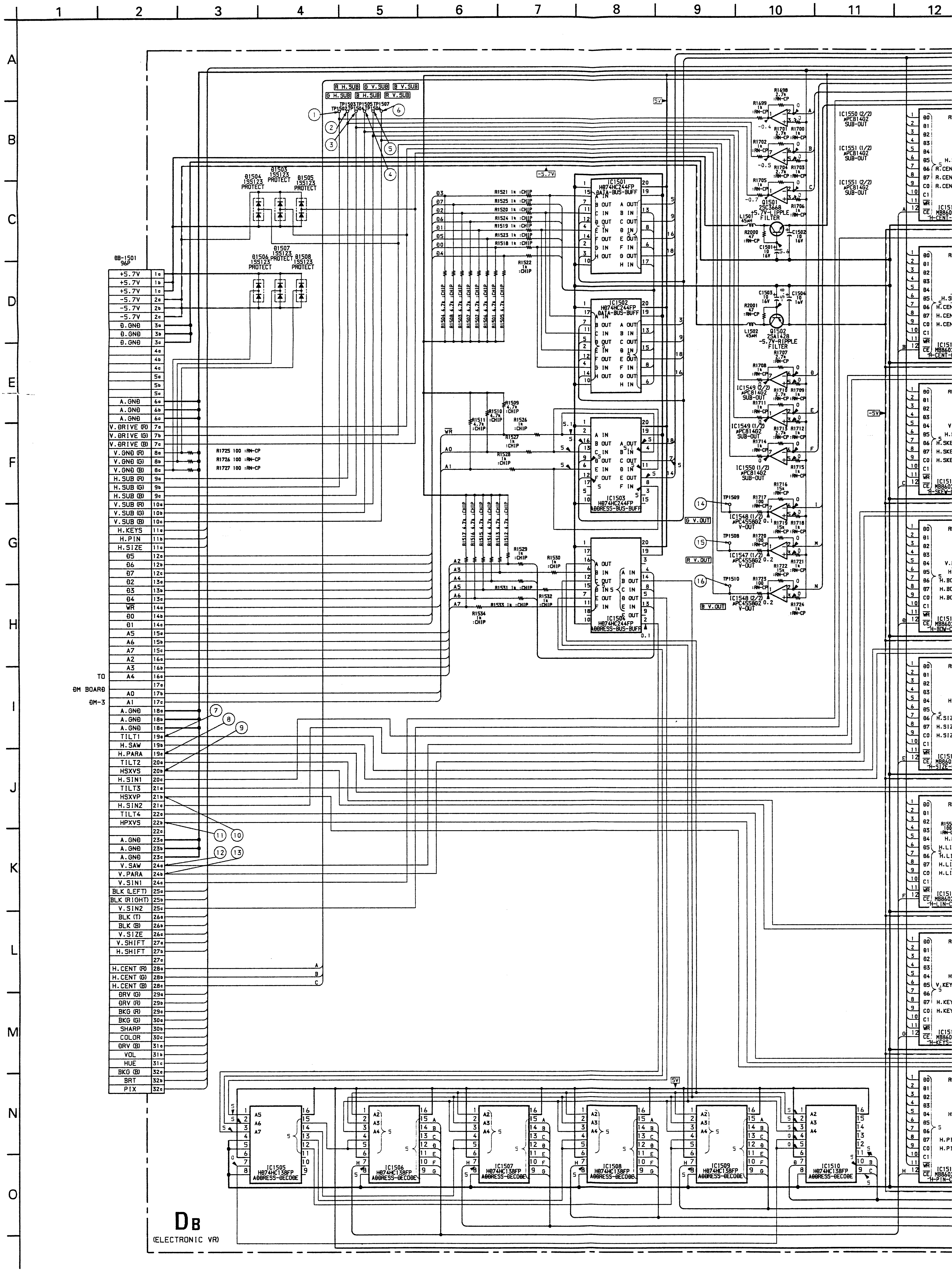
IC	
IC1501	D-5
IC1502	D-4
IC1503	E-8
IC1504	D-2
IC1505	D-1
IC1506	D-1
IC1507	C-1
IC1508	B-1
IC1509	E-9
IC1510	E-9
IC1552	B-10

TRANSISTOR	
Q1501	D-3
Q1502	D-3

DIODE	
D1503	E-3
D1504	D-3
D1505	E-3
D1506	D-4
D1507	D-4
D1508	E-5

DB BOARD




1
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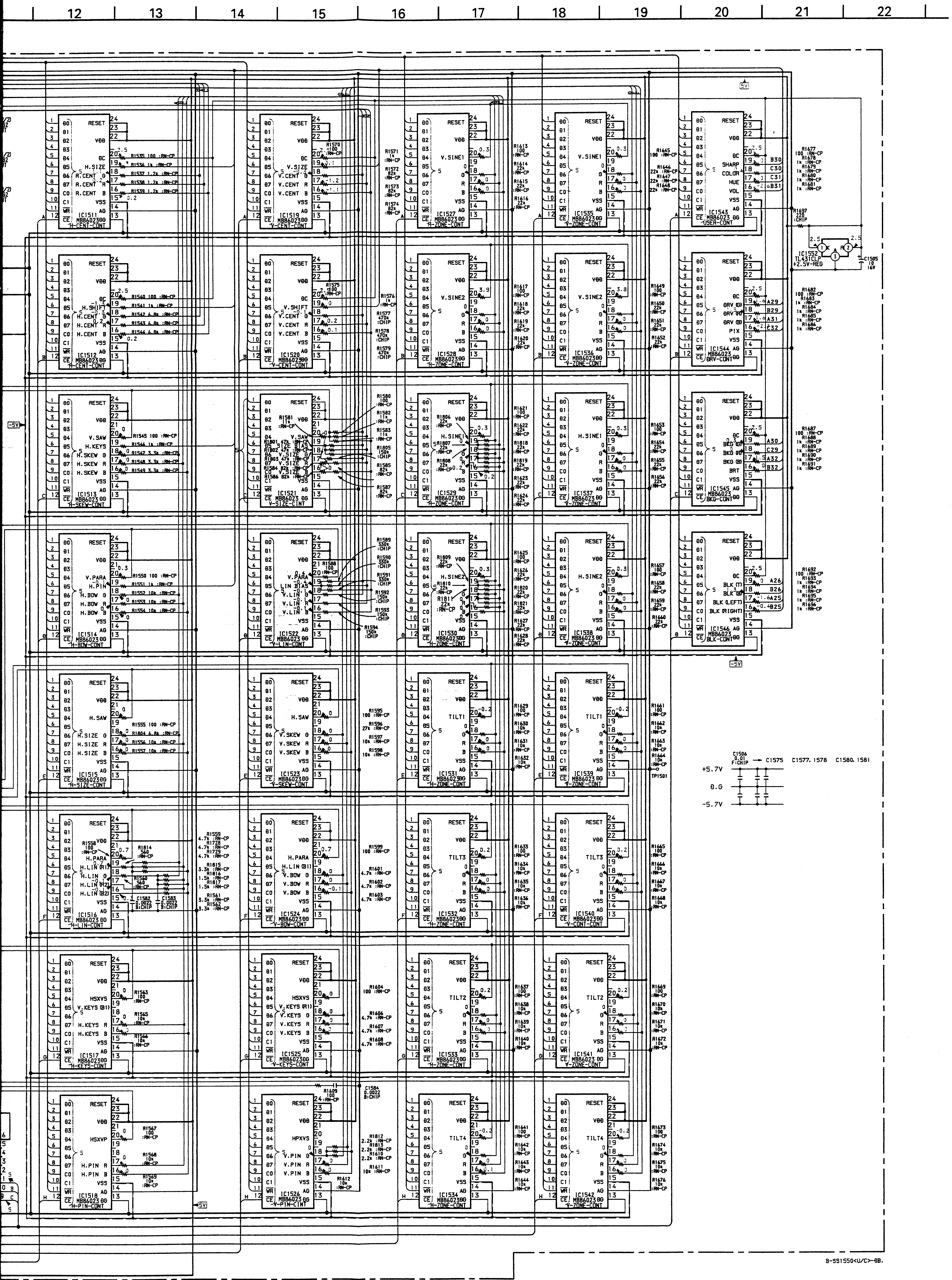
11
12
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
DB
(ELECTRONIC VR)
TO
DM BOARD
DM-3
DB-1501
96P
+5.7V
-5.7V
D.GND
A.GND
V.DRIVE (R)
V.DRIVE (G)
V.DRIVE (B)
V.GND (R)
V.GND (G)
V.GND (B)
H.SUB (R)
H.SUB (G)
H.SUB (B)
V.SUB (R)
V.SUB (G)
V.SUB (B)
H.KEYS
H.PIN
H.SIZE
D5
D6
D7
D2
D3
D4
WR
D0
D1
A5
A6
A7
A2
A3
A4
A0
A1
TILT1
H.SAW
H.PARA
TILT2
HSXVS
H.SIN1
TILT3
HSXVP
H.SIN2
TILT4
HPXVS
V.SAW
V.PARA
V.SIN1
BLK (LEFT)
BLK (RIGHT)
V.SIN2
BLK (T)
BLK (B)
V.SIZE
V.SHIFT
H.SHIFT
H.CENT (R)
H.CENT (G)
H.CENT (B)
DRV (G)
DRV (R)
BKG (R)
BKG (G)
SHARP
COLOR
DRV (B)
VOL
HUE
BKG (B)
BRT
PIX
R H.SUB
G V.SUB
B V.SUB
G H.SUB
B H.SUB
R V.SUB
TP1502
TP1503
TP1504
TP1505
TP1506
TP1507
D1503 1SS123 PROTECT
D1504 1SS123 PROTECT
D1505 1SS123 PROTECT
D1506 1SS123 PROTECT
D1507 1SS123 PROTECT
D1508 1SS123 PROTECT
R1725 100 :RN-CP
R1726 100 :RN-CP
R1727 100 :RN-CP
5V
-5.7V
-5V
IC1501 HD74HC244FP DATA-BUS-BUFF
IC1502 HD74HC244FP DATA-BUS-BUFF
IC1503 HD74HC244FP ADDRESS-BUS-BUFF
IC1504 HD74HC244FP ADDRESS-BUS-BUFF
R1521 1k :CHIP
R1525 1k :CHIP
R1520 1k :CHIP
R1524 1k :CHIP
R1519 1k :CHIP
R1523 1k :CHIP
R1518 1k :CHIP
R1522 1k :CHIP
R1504 4.7k :CHIP
R1508 4.7k :CHIP
R1503 4.7k :CHIP
R1502 4.7k :CHIP
R1507 4.7k :CHIP
R1501 4.7k :CHIP
R1506 4.7k :CHIP
R1505 4.7k :CHIP
R1509 4.7k :CHIP
R1510 4.7k :CHIP
R1511 4.7k :CHIP
R1526 1k :CHIP
R1527 1k :CHIP
R1528 1k :CHIP
R1517 4.7k :CHIP
R1516 4.7k :CHIP
R1515 4.7k :CHIP
R1514 4.7k :CHIP
R1513 4.7k :CHIP
R1512 4.7k :CHIP
R1529 1k :CHIP
R1530 1k :CHIP
R1531 1k :CHIP
R1532 1k :CHIP
R1533 1k :CHIP
R1534 1k :CHIP
IC1550 (2/2) µPC814G2 SUB-OUT
IC1551 (1/2) µPC814G2 SUB-OUT
IC1551 (2/2) µPC814G2 SUB-OUT
R1698 2.7k :RN-CP
R1699 1k :RN-CP
R1700 1k :RN-CP
R1701 2.7k :RN-CP
R1702 1k :RN-CP
R1703 1k :RN-CP
R1704 2.7k :RN-CP
R1705 1k :RN-CP
R1706 1k :RN-CP
Q1501 2SC3668 +5.7V-LIPPLE FILTER
L1501 45µH
R2000 47 :RN-CP
C1501 10 16V
C1502 10 16V
C1503 10 16V
C1504 10 16V
R2001 47 :RN-CP
L1502 45µH
Q1502 2SA1428 -5.7V-RIPPLE FILTER
R1707 2.7k :RN-CP
R1708 1k :RN-CP
R1709 1k :RN-CP
R1710 2.7k :RN-CP
R1711 1k :RN-CP
R1712 1k :RN-CP
R1713 2.7k :RN-CP
R1714 1k :RN-CP
R1715 1k :RN-CP
R1716 15k :RN-CP
R1717 100 :RN-CP
R1718 15k :RN-CP
R1719 15k
R1720 100 :RN-CP
R1721 1k :RN-CP
R1722 15k :RN-CP
R1723 100 :RN-CP
R1724 1k :RN-CP
IC1549 (2/2) µPC814G2 SUB-OUT
IC1549 (1/2) µPC814G2 SUB-OUT
IC1550 (1/2) µPC814G2 SUB-OUT
IC1548 (1/2) µPC4558G2 V-OUT
IC1547 (1/2) µPC4558G2 V-OUT
IC1548 (2/2) µPC4558G2 V-OUT
TP1508
TP1509
TP1510
G V.OUT
R V.OUT
B V.OUT
IC1505 HD74HC138FP ADDRESS-DECODE
IC1506 HD74HC138FP ADDRESS-DECODE
IC1507 HD74HC138FP ADDRESS-DECODE
IC1508 HD74HC138FP ADDRESS-DECODE
IC1509 HD74HC138FP ADDRESS-DECODE
IC1510 HD74HC138FP ADDRESS-DECODE
MB8860
H-CENT
H-SKEW
H-BOW
H-SIZE
H-LIN
H-KEYS
H-PIN

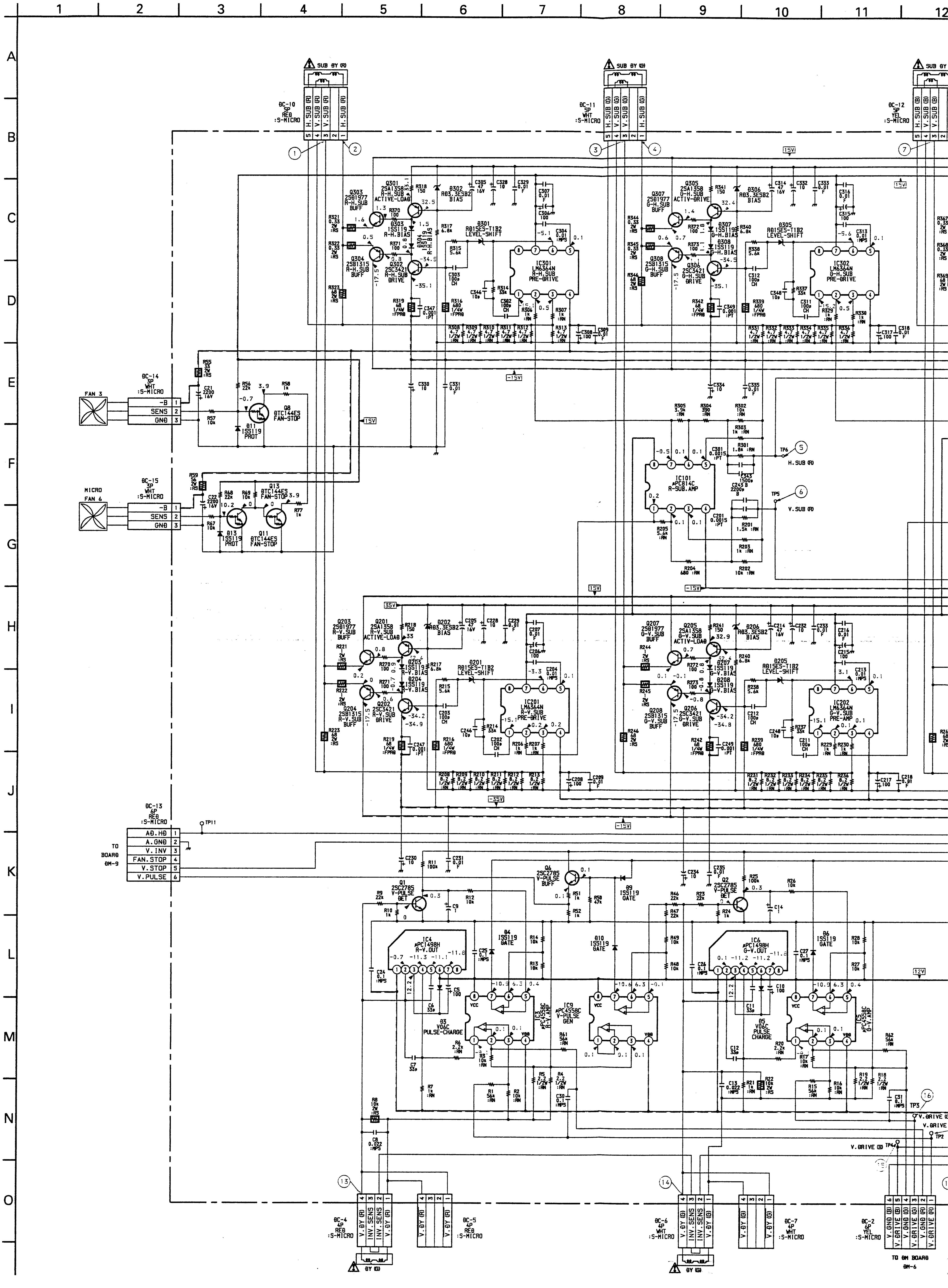

12
13
14
15
16
17
18
19
20
21
22
IC1511 MB86023 0G H-CENT-CONT
IC1519 MB86023 0G V-CENT-CONT
IC1527 MB86023 0G H-ZONE-CONT
IC1535 MB86023 0G V-ZONE-CONT
IC1543 MB86023 0G USER-CONT
IC1552 TL431CLP +2.5V-REG
C1505 10 16V
IC1512 MB86023 0G H-CENT-CONT
IC1520 MB86023 0G V-CENT-CONT
IC1528 MB86023 0G H-ZONE-CONT
IC1536 MB86023 0G V-ZONE-CONT
IC1544 MB86023 GRV-CONT 0G
IC1513 MB86023 0G H-SKEW-CONT
IC1521 MB86023 0G V-SIZE-CINT
IC1529 MB86023 0G H-ZONE-CONT
IC1537 MB86023 0G V-ZONE-CONT
IC1545 MB86023 BKG-CONT 0G
IC1514 MB86023 0G H-BOW-CONT
IC1522 MB86023 0G V-LIN-CONT
IC1530 MB86023 0G H-ZONE-CONT
IC1538 MB86023 0G V-ZONE-CONT
IC1546 MB86023 BLK-CONT 0G
IC1515 MB86023 0G H-SIZE-CONT
IC1523 MB86023 0G V-SKEW-CONT
IC1531 MB86023 0G H-ZONE-CONT
IC1539 MB86023 0G V-ZONE-CONT
IC1516 MB86023 0G H-LIN-CONT
IC1524 MB86023 0G V-BOW-CONT
IC1532 MB86023 0G H-ZONE-CONT
IC1540 MB86023 0G V-CONT-CONT
IC1517 MB86023 0G H-KEYS-CONT
IC1525 MB86023 0G V-KEYS-CONT
IC1533 MB86023 0G H-ZONE-CONT
IC1541 MB86023 0G V-ZONE-CONT
IC1518 MB86023 0G H-PIN-CONT
IC1526 MB86023 0G V-PIN-CINT
IC1534 MB86023 0G H-ZONE-CONT
IC1542 MB86023 0G V-ZONE-CONT
+5.7V
0.G
-5.7V
C1506 0.01 F:CHIP
C1575
C1577, 1578
C1580, 1581
TP1501
-5V
5V
B-SS1550<U/C>-0B.

Schematic diagram

⬅ DB board

Schematic diagram

DC board ➡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7
8
9
10
11
12
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
SUB DY (R)
SUB DY (G)
SUB DY
CN-10 5P RED :S-MICRO
CN-11 5P WHT :S-MICRO
CN-12 5P YEL :S-MICRO
H.SUB (R)
V.SUB (R)
H.SUB (G)
V.SUB (G)
H.SUB (B)
V.SUB (B)
15V
-15V
35V
-35V
12V
Q301 2SA1358 R-H.SUB ACTIVE-LOAD
Q302 2SC3421 R-H.SUB DRIVE
Q303 2SB1977 R-H.SUB BUFF
Q304 2SB1315 R-H.SUB BUFF
D302 RD3.3ESB2 BIAS
D301 RD1SES-T1B2 LEVEL-SHIFT
D303 1SS119 R-H.BIAS
D304 1SS119 R-H.BIAS
IC301 LM6364N R-H.SUB PRE-DRIVE
Q305 2SA1358 G-H.SUB ACTIVE-DRIVE
Q306 2SC3421 G-H.SUB DRIVE
Q307 2SB1977 G-H.SUB BUFF
Q308 2SB1315 G-V.SUB BUFF
D306 RD3.3ESB2 BIAS
D305 RD1SES-T1B2 LEVEL-SHIFT
D307 1SS119 G-H.BIAS
D308 1SS119 G-H.BIAS
IC302 LM6364N G-H.SUB PRE-DRIVE
CN-14 3P WHT :S-MICRO
FAN 3
-B
SENS
GND
Q8 DTC144ES FAN-STOP
D11 1SS119 PROT
CN-15 3P WHT :S-MICRO
MICRO FAN 6
D13 1SS119 PROT
Q13 DTC144ES FAN-STOP
Q11 DTC144ES FAN-STOP
IC101 μPC814C R-SUB.AMP
TP6
H.SUB (R)
TP5
V.SUB (R)
Q201 2SA1358 R-V.SUB ACTIVE-LOAD
Q202 2SC3421 R-V.SUB DRIVE
Q203 2SB1977 R-V.SUB BUFF
Q204 2SB1315 R-V.SUB BUFF
D202 RD3.3ESB2 BIAS
D201 RD1SES-T1B2 LEVEL-SHIFT
D203 1SS119 R-V.BIAS
D204 1SS119 R-V.BIAS
IC201 LM6364N R-V.SUB PRE-DRIVE
Q205 2SA1358 G-V.SUB ACTIV-LOAD
Q206 2SC3421 G-V.SUB DRIVE
Q207 2SB1977 G-V.SUB BUFF
Q208 2SB1315 G-V.SUB BUFF
D206 RD3.3ESB2 BIAS
D205 RD1SES-T1B2 LEVEL-SHIFT
D207 1SS119 G-V.BIAS
D208 1SS119 G-V.BIAS
IC202 LM6364N G-V.SUB PRE-AMP
CN-13 6P RED :S-MICRO
TO BOARD BM-9
AD.HD
A.GND
V.INV
FAN.STOP
V.STOP
V.PULSE
TP11
Q1 2SC2785 V-PULSE DET
Q6 2SC2785 V-PULSE BUFF
Q2 2SC2785 V-PULSE DET
D9 1SS119 GATE
D4 1SS119 GATE
D10 1SS119 GATE
D6 1SS119 GATE
IC4 μPC1498H R-V.OUT
IC6 μPC1498H G-V.OUT
IC3 μPC4558C R-V.AMP
IC9 μPC4558C V-PULSE GEN
IC5 μPC4558C G-V.AMP
D3 V06C PULSE-CHARGE
D5 V06C PULSE CHARGE
VCC
VDD
TP3
TP2
TP4
V.DRIVE (G)
V.DRIVE
CN-4 4P RED :S-MICRO
V.DY (R)
INV.SENS
CN-5 4P RED :S-MICRO
CN-6 4P WHT :S-MICRO
V.DY (G)
CN-7 4P WHT :S-MICRO
CN-2 6P YEL :S-MICRO
V.GND (B)
V.DRIVE (B)
V.GND (G)
V.DRIVE (G)
V.GND (R)
V.DRIVE (R)
TO BM BOARD BM-6
DY (R)
DY (G)
①
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⑬
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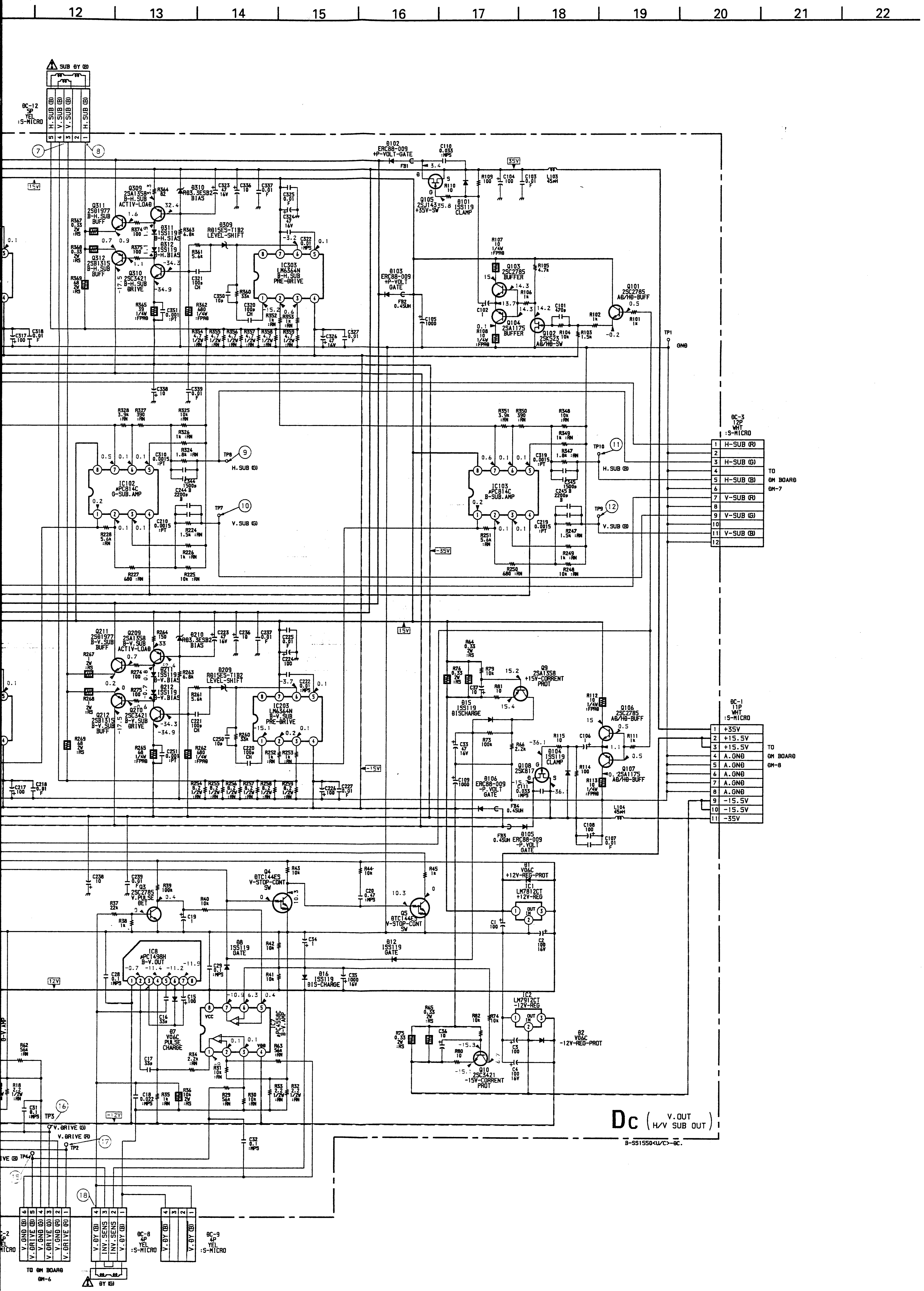
12
13
14
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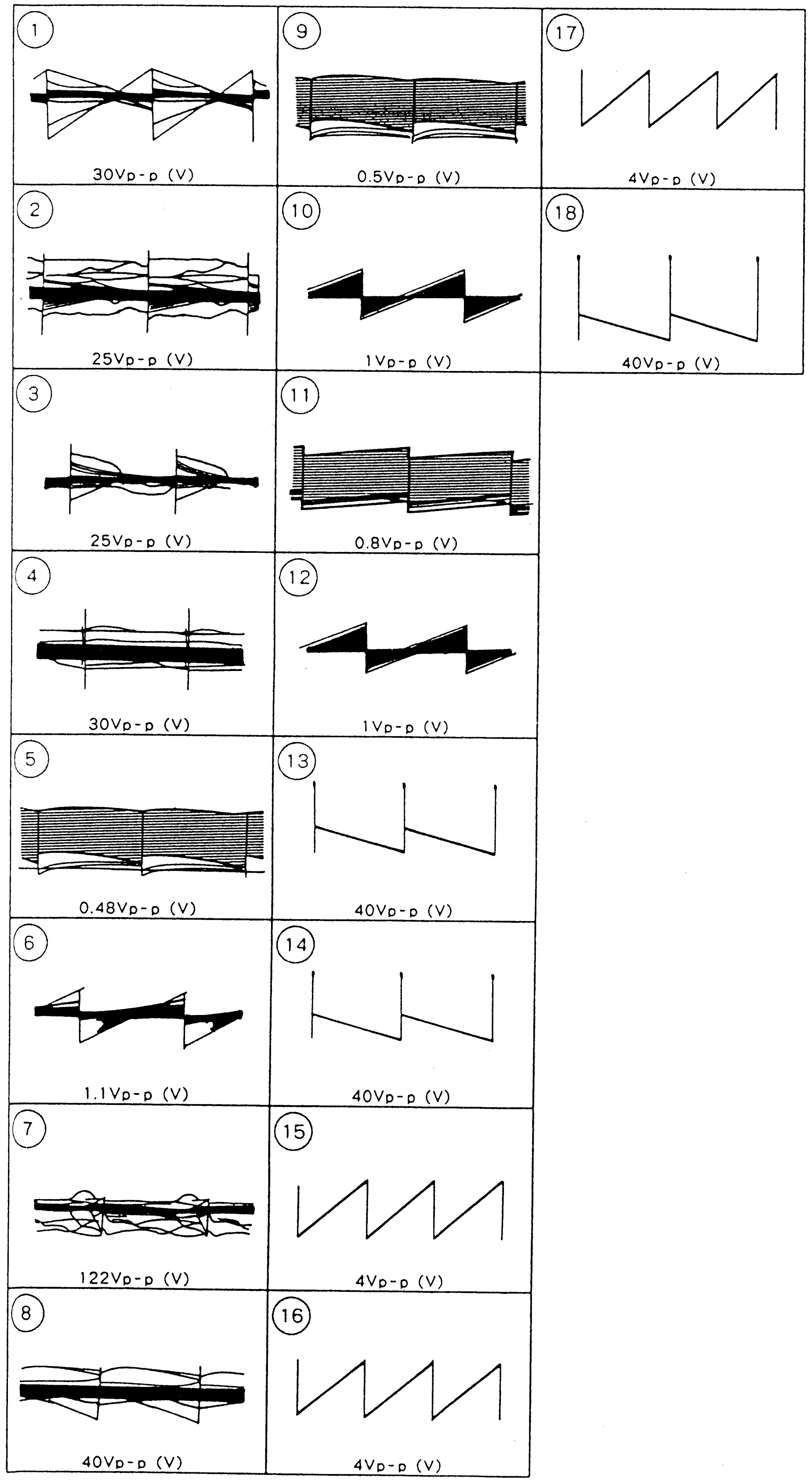
16
17
18
19
20
21
22
SUB DY (B)
8C-12 5P YEL :S-MICRO
H.SUB (B)
V.SUB (B)
V.SUB (B)
H.SUB (B)
Q309 2SA1358 B-H.SUB ACTIV-LOAD
Q310 2SC3421 B-H.SUB DRIVE
Q311 2SB1977 B-H.SUB BUFF
Q312 2SB1315 B-H.SUB BUFF
D310 RD3.3ESB2 BIAS
D309 RD15ES-T1B2 LEVEL-SHIFT
IC303 LM6364N B-H.SUB PRE-DRIVE
D102 ERC88-009 +P-VOLT-GATE
C110 0.033 :MPS
Q105 2SJ143 +35V-SW
D101 1SS119 CLAMP
D103 ERC88-009 +P-VOLT GATE
Q103 2SC2785 BUFFER
Q104 2SA1175 BUFFER
Q102 2SK523 AD/HD-SW
Q101 2SC2785 AD/HD-BUFF
L103 45μH
TP1 GND
IC102 μPC814C G-SUB.AMP
IC103 μPC814C B-SUB.AMP
TP8 H.SUB (G)
TP7 V.SUB (G)
TP10 H.SUB (B)
TP9 V.SUB (B)
8C-3 12P WHT :S-MICRO
1 H-SUB (R)
2
3 H-SUB (G)
4
5 H-SUB (B)
6
7 V-SUB (R)
8
9 V-SUB (G)
10
11 V-SUB (B)
12
TO DM BOARD DM-7
Q209 2SA1358 B-V.SUB ACTIV-LOAD
Q210 2SC3421 B-V.SUB DRIVE
Q211 2SB1977 B-V.SUB BUFF
Q212 2SB1315 B-V.SUB BUFF
D210 RD3.3ESB2 BIAS
D209 RD15ES-T1B2 LEVEL-SHIFT
IC203 LM6364N B-V.SUB PRE-DRIVE
Q9 2SA1358 +15V-CURRENT PROT
D15 1SS119 DISCHARGE
D106 ERC88-009 -P.VOLT GATE
D104 1SS119 CLAMP
Q108 2SK817 CLAMP
Q106 2SC2785 AD/HD-BUFF
Q107 2SA1175 AD/HD-BUFF
D105 ERC88-009 -P.VOLT GATE
L104 45μH
8C-1 11P WHT :S-MICRO
1 +35V
2 +15.5V
3 +15.5V
4 A.GND
5 A.GND
6 A.GND
7 A.GND
8 A.GND
9 -15.5V
10 -15.5V
11 -35V
TO DM BOARD DM-8
D1 V06C +12V-REG-PROT
IC1 LM7812CT +12V-REG
Q3 2SC2785 V.PULSE DET
Q4 DTC144ES V-STOP-CONT SW
Q5 DTC144ES V-STOP-CONT SW
D8 1SS119 GATE
D12 1SS119 GATE
D16 1SS119 DIS-CHARGE
IC8 μPC1498H B-V.OUT
D7 V06C PULSE CHARGE
IC7 μPC4558C B-V.AMP
IC2 LM7912CT -12V-REG
D2 V06C -12V-REG-PROT
Q10 2SC3421 -15V-CURRENT PROT
15V
35V
-35V
-15V
12V
-12V
TP3 V.DRIVE (G)
V.DRIVE (R)
TP2
TP4
8C-2 6P MICRO
V.GND (B)
V.DRIVE (B)
V.GND (G)
V.DRIVE (G)
V.GND (R)
V.DRIVE (R)
TO DM BOARD DM-6
8C-8 4P YEL :S-MICRO
V.DY (B)
INV.SENS
INV.SENS
V.DY (B)
8C-9 4P YEL :S-MICRO
V.DY (B)
V.DY (B)
DY (G)
Dc (V.OUT H/V SUB OUT)
8-SS1550<U/C>-8C.

DC BOARD



DC BOARD

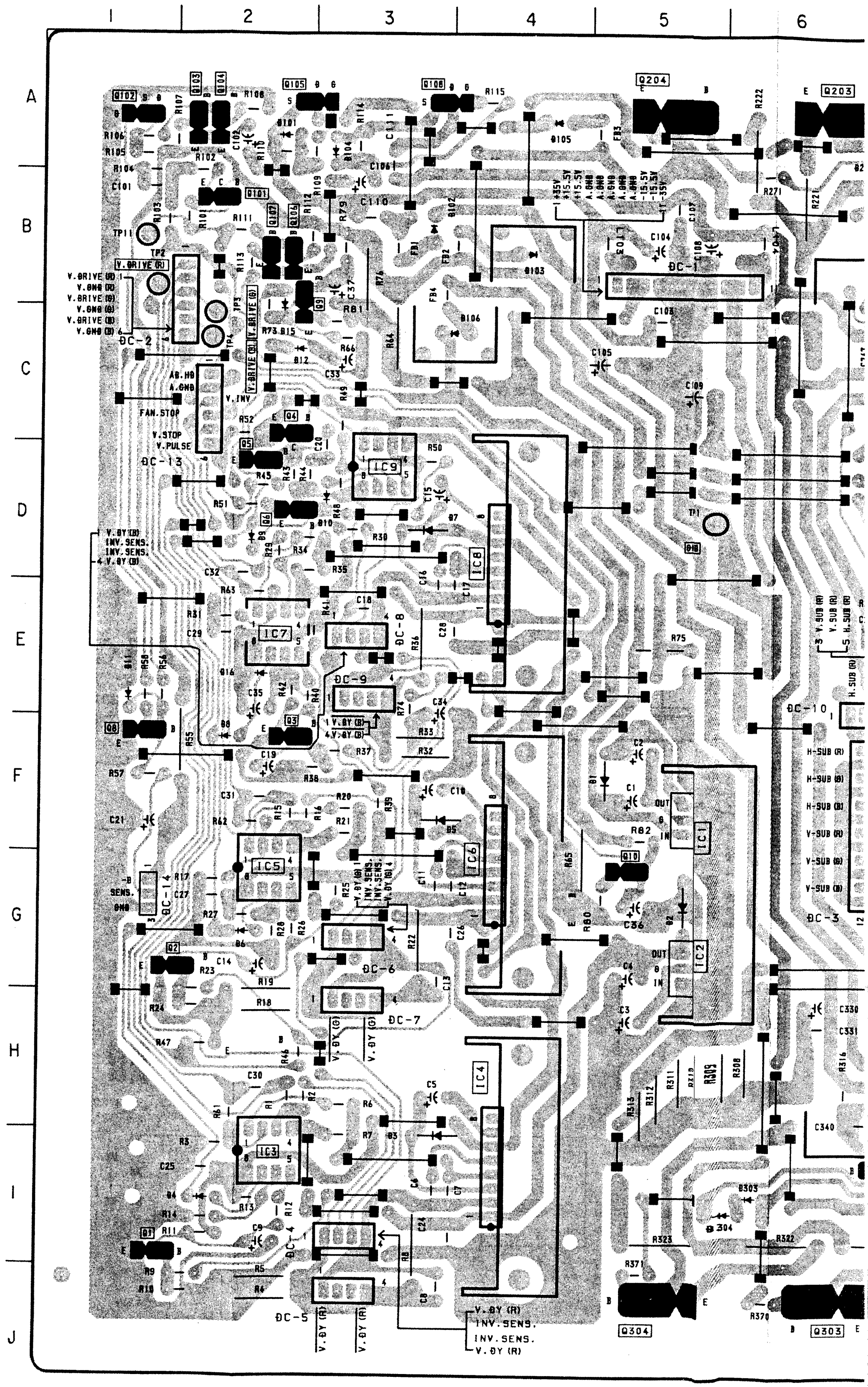
IC	
IC1	F-5
IC2	G-5
IC3	I-2
IC4	H-4
IC5	G-2
IC6	G-4
IC7	E-2
IC8	D-4
IC9	D-3
IC101	E-8
IC102	E-10
IC103	E-12
IC201	D-7
IC202	D-10
IC203	C-12
IC301	G-8
IC302	G-9
IC303	G-12

TRANSISTOR	
Q1	I-1
Q2	G-1
Q3	F-2
Q4	C-2
Q5	D-2
Q6	D-2
Q8	F-1
Q9	B-2
Q10	G-5
Q11	I-13
Q13	G-13
Q101	B-2
Q102	A-1
Q103	A-2
Q104	A-2
Q105	A-2
Q106	B-2
Q107	B-2
Q108	A-3
Q201	B-8
Q202	B-7
Q203	A-6
Q204	A-5
Q205	B-10
Q206	B-9
Q207	A-9
Q208	A-8
Q209	B-13
Q210	B-12
Q211	A-11
Q212	A-10
Q301	I-8
Q302	I-7
Q303	J-6
Q304	J-5
Q305	I-10
Q306	I-9
Q307	J-9
Q308	J-7
Q309	I-13
Q310	I-11
Q311	J-11
Q312	J-10

DIODE	
D1	F-5
D2	G-5
D3	I-2
D4	I-2
D5	F-3
D6	G-2
D7	D-3
D8	F-2
D9	D-2
D10	D-3
D11	E-1
D12	C-2
D13	I-13
D15	C-2
D16	E-2
D101	A-2
D102	B-3
D103	B-4
D104	A-3
D105	A-4
D106	C-4
D201	D-7
D202	C-8
D203	A-7
D204	A-7
D205	B-10
D206	C-11
D207	A-9
D208	A-9
D209	B-12
D210	C-13
D211	B-11
D212	B-11
D301	H-8
D302	H-8
D303	I-6
D304	I-6
D305	H-9
D306	H-10
D307	I-9
D308	I-8
D309	H-12
D310	H-13
D311	I-11
D312	I-10

DC [V. OUT, H/V SUB OUT]

– DC BOARD –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F
G
H
I
J
Q102
Q103
Q104
Q105
Q108
Q204
Q203
Q101
TP11
TP2
V.DRIVE (B)
V.GND (B)
V.DRIVE (R)
V.GND (R)
V.DRIVE (G)
V.GND (G)
DC-2
DC-1
FAN.STOP
V.STOP
V.PULSE
DC-13
IC9
IC8
IC7
DC-8
DC-9
DC-10
IC5
IC6
IC1
IC2
DC-14
DC-6
DC-7
DC-3
IC4
IC3
DC-4
DC-5
Q304
Q303
V.DY (R)
INV.SENS.
INV.SENS.
V.DY (R)
H-SUB (R)
H-SUB (B)
H-SUB (G)
V-SUB (R)
V-SUB (B)
V-SUB (G)
SENS.
GND
OUT
IN

DC [V. OUT, H/V SUB OUT]

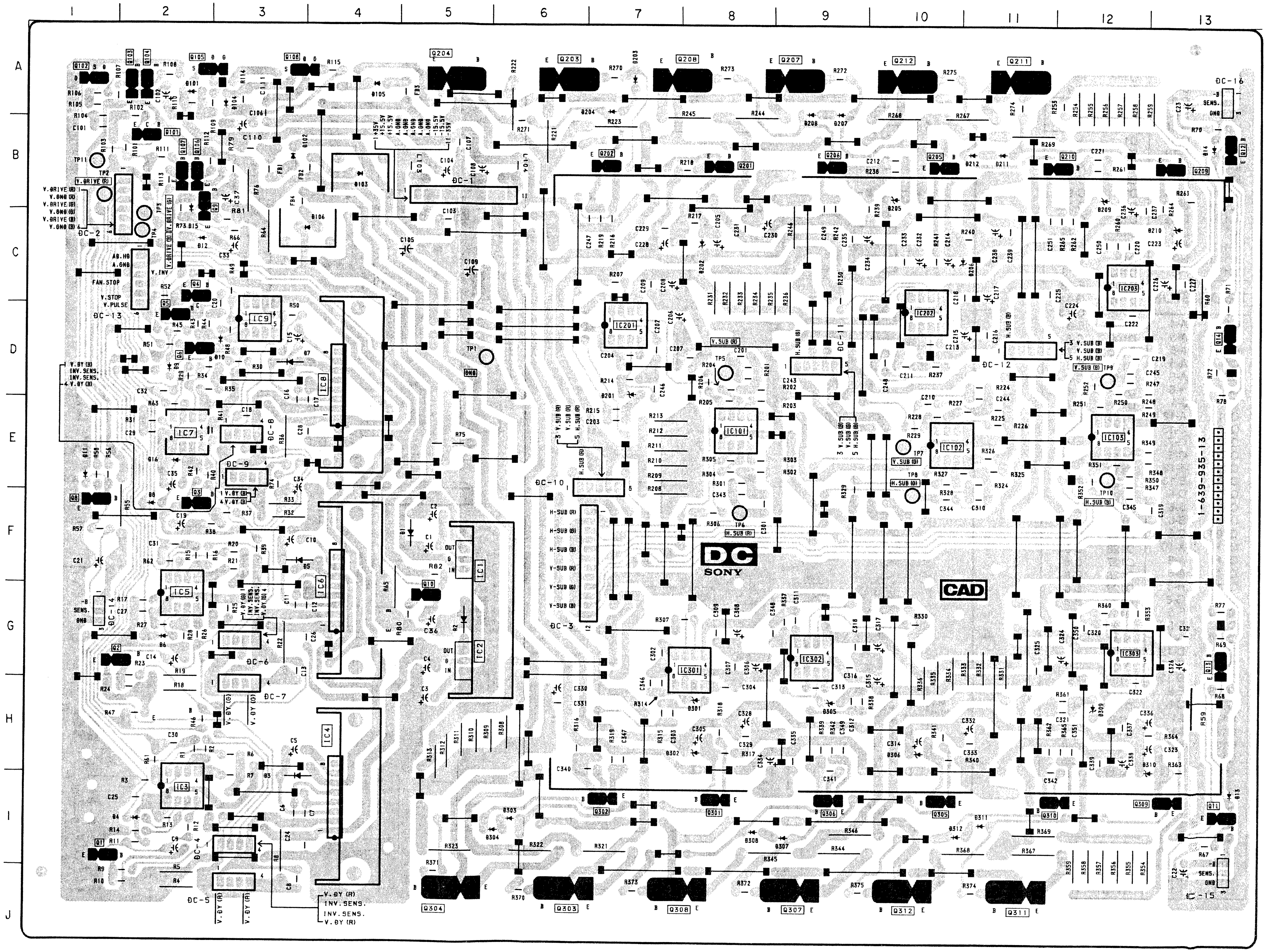
DC BOARD

IC	
IC1	F-5
IC2	G-5
IC3	I-2
IC4	H-4
IC5	G-2
IC6	G-4
IC7	E-2
IC8	D-4
IC9	D-3
IC101	E-8
IC102	E-10
IC103	E-12
IC201	D-7
IC202	D-10
IC203	C-12
IC301	G-8
IC302	G-9
IC303	G-12

TRANSISTOR	
Q1	I-1
Q2	G-1
Q3	F-2
Q4	C-2
Q5	D-2
Q6	D-2
Q8	F-1
Q9	B-2
Q10	G-5
Q11	I-13
Q13	G-13
Q101	B-2
Q102	A-1
Q103	A-2
Q104	A-2
Q105	A-2
Q106	B-2
Q107	B-2
Q108	A-3
Q201	B-8
Q202	B-7
Q203	A-6
Q204	A-5
Q205	B-10
Q206	B-9
Q207	A-9
Q208	A-8
Q209	B-13
Q210	B-12
Q211	A-11
Q212	A-10
Q301	I-8
Q302	I-7
Q303	J-6
Q304	J-5
Q305	I-10
Q306	I-9
Q307	J-9
Q308	J-7
Q309	I-13
Q310	I-11
Q311	J-11
Q312	J-10

DIODE	
D1	F-5
D2	G-5
D3	I-2
D4	I-2
D5	F-3
D6	G-2
D7	D-3
D8	F-2
D9	D-2
D10	D-3
D11	E-1
D12	C-2
D13	I-13
D15	C-2
D16	E-2
D101	A-2
D102	B-3
D103	B-4
D104	A-3
D105	A-4
D106	C-4
D201	D-7
D202	C-8
D203	A-7
D204	A-7
D205	B-10
D206	C-11
D207	A-9
D208	A-9
D209	B-12
D210	C-13
D211	B-11
D212	B-11
D301	H-8
D302	H-8
D303	I-6
D304	I-6
D305	H-9
D306	H-10
D307	I-9
D308	I-8
D309	H-12
D310	H-13
D311	I-11
D312	I-10

– DC BOARD –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I
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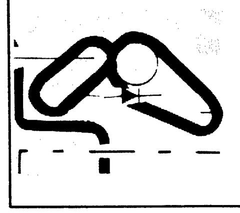
DC
SONY
CAD
1-639-935-13
IC1
IC2
IC3
IC4
IC5
IC6
IC7
IC8
IC9
IC101
IC102
IC103
IC201
IC202
IC203
IC301
IC302
IC303
DC-1
DC-2
DC-3
DC-4
DC-5
DC-6
DC-7
DC-8
DC-9
DC-10
DC-11
DC-12
DC-13
DC-14
DC-15
DC-16
V.BY (R)
INV. SENS.
INV. SENS.
V.BY (R)

E [H OUT]

- E BOARD -



NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

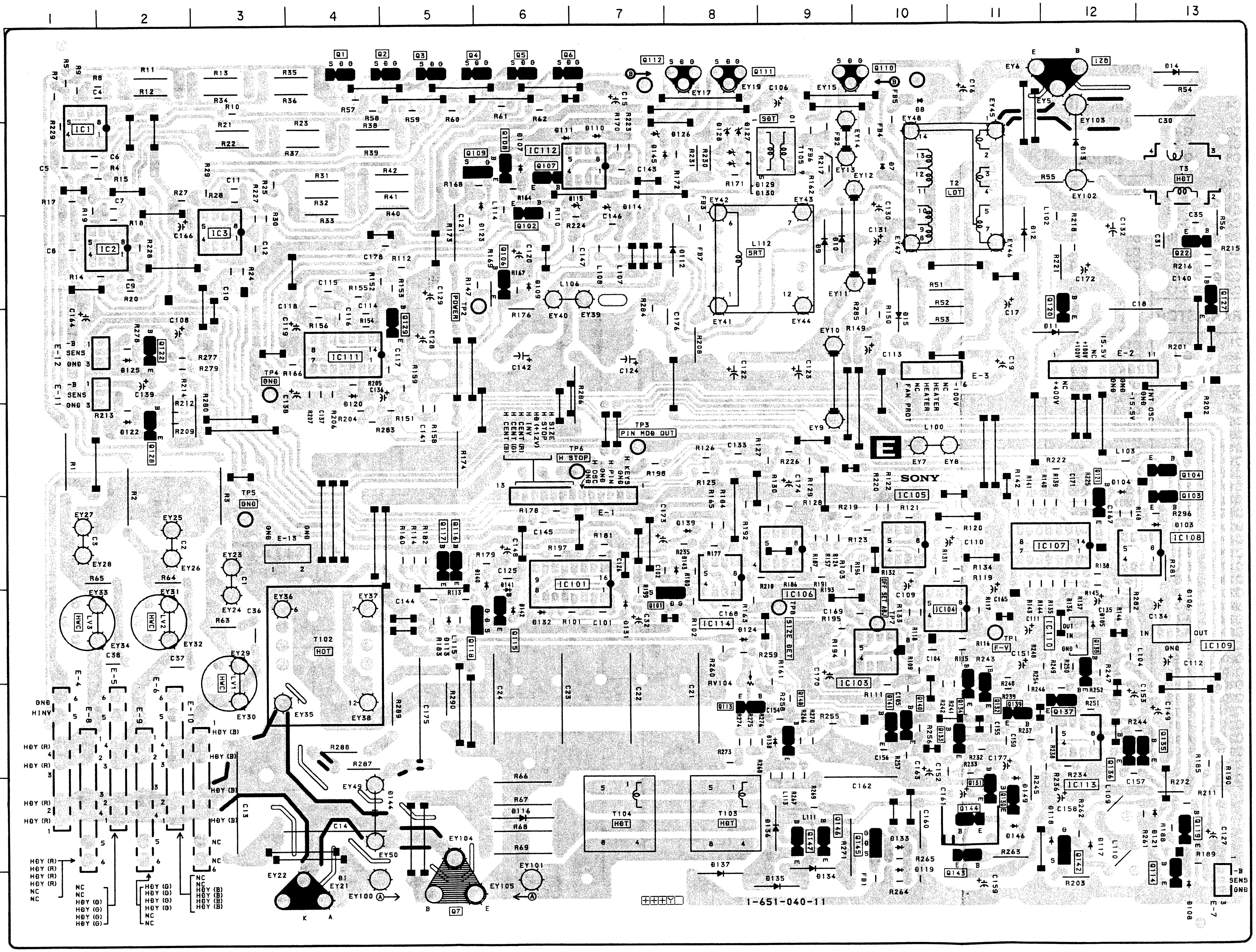
E BOARD

IC	
IC1	B-1
IC2	C-2
IC3	C-3
IC101	F-6
IC103	G-10
IC104	G-10
IC105	F-10
IC106	G-9
IC107	F-12
IC108	F-13
IC109	G-13
IC110	G-12
IC111	D-4
IC112	B-6
IC113	H-12
IC114	F-8

TRANSISTOR	
Q1	A-4
Q2	A-5
Q3	A-5
Q4	A-5
Q5	A-6
Q6	A-6
Q7	J-5
Q21	A-12
Q22	C-13
Q101	G-7
Q102	C-6
Q103	F-13
Q104	E-13
Q106	C-6
Q107	B-6
Q108	B-6
Q109	B-6
Q110	A-10
Q111	A-8
Q112	A-8
Q113	H-8
Q115	G-6
Q116	F-5
Q117	F-5
Q118	G-5
Q120	D-12
Q121	F-12
Q127	D-13
Q128	E-2
Q129	D-5
Q130	I-11
Q131	I-11
Q132	H-11
Q133	H-11
Q134	H-11
Q135	H-13
Q136	H-12
Q137	H-12
Q138	G-12
Q139	H-11
Q140	H-10
Q141	H-10
Q142	I-12
Q143	I-11
Q144	I-11
Q145	I-10
Q146	I-9
Q147	I-9
Q148	H-9

DIODE	
D1	J-4
D7	B-10
D8	A-10
D9	C-9
D10	C-9
D11	D-12
D12	C-11
D13	B-12
D14	A-13
D15	D-10
D103	F-13
D104	F-12
D105	G-12
D106	G-13
D107	B-6
D109	C-6
D110	B-7
D111	B-6
D112	C-8
D113	G-5
D114	B-7
D115	B-7
D116	I-6
D117	I-12
D118	I-12
D119	J-10
D120	D-4
D121	I-13
D122	E-2
D123	B-6
D124	G-8
D126	B-8
D127	B-8
D128	B-8
D129	B-8
D130	B-8
D131	G-7
D132	G-6
D133	I-10
D134	J-9
D135	J-9
D136	I-9
D137	J-8
D138	H-9
D139	F-8
D140	F-6
D141	G-6
D142	G-6
D143	F-8
D144	I-4
D145	B-7
D146	I-11
D149	I-11

VARIABLE RESISTOR	
RV101	H-8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A
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C
D
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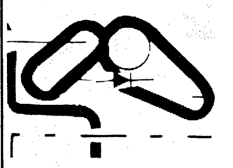
F
G
H
I
J
IC1
IC2
IC3
IC101
IC103
IC104
IC105
IC106
IC107
IC108
IC109
IC110
IC111
IC112
IC113
IC114
T2 LOT
T3 HBT
T102 HDT
T103 HDT
T104 HDT
L112 SRT
LV1 HWC
LV2 HWC
LV3 HWC
TP1 F-V
TP2 POWER
TP3 PIN MOD OUT
TP4 GND
TP5 GND
TP6 H STOP
E-1
E-2
E-3
E-4
E-5
E-6
E-7
E-8
E-9
E-10
E-11
E-12
E-13
SONY
1-651-040-11

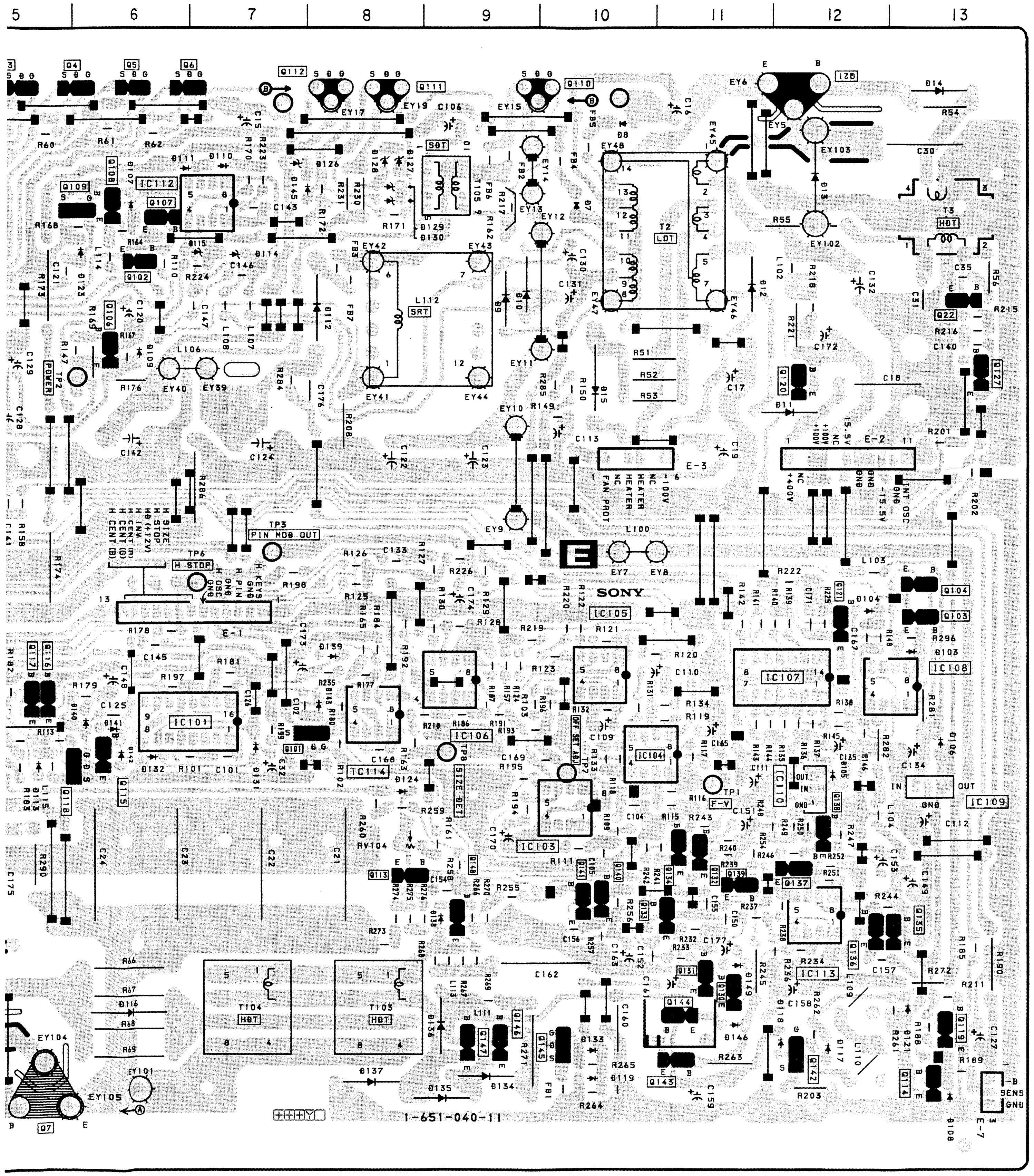
E BOAR

REF.
IC301
IC501
IC112
IC114

REF.
Q007
Q106
Q107
Q108
Q113
Q137
Q138
Q140
Q143
Q144
Q146
Q147
Q148



NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.


5
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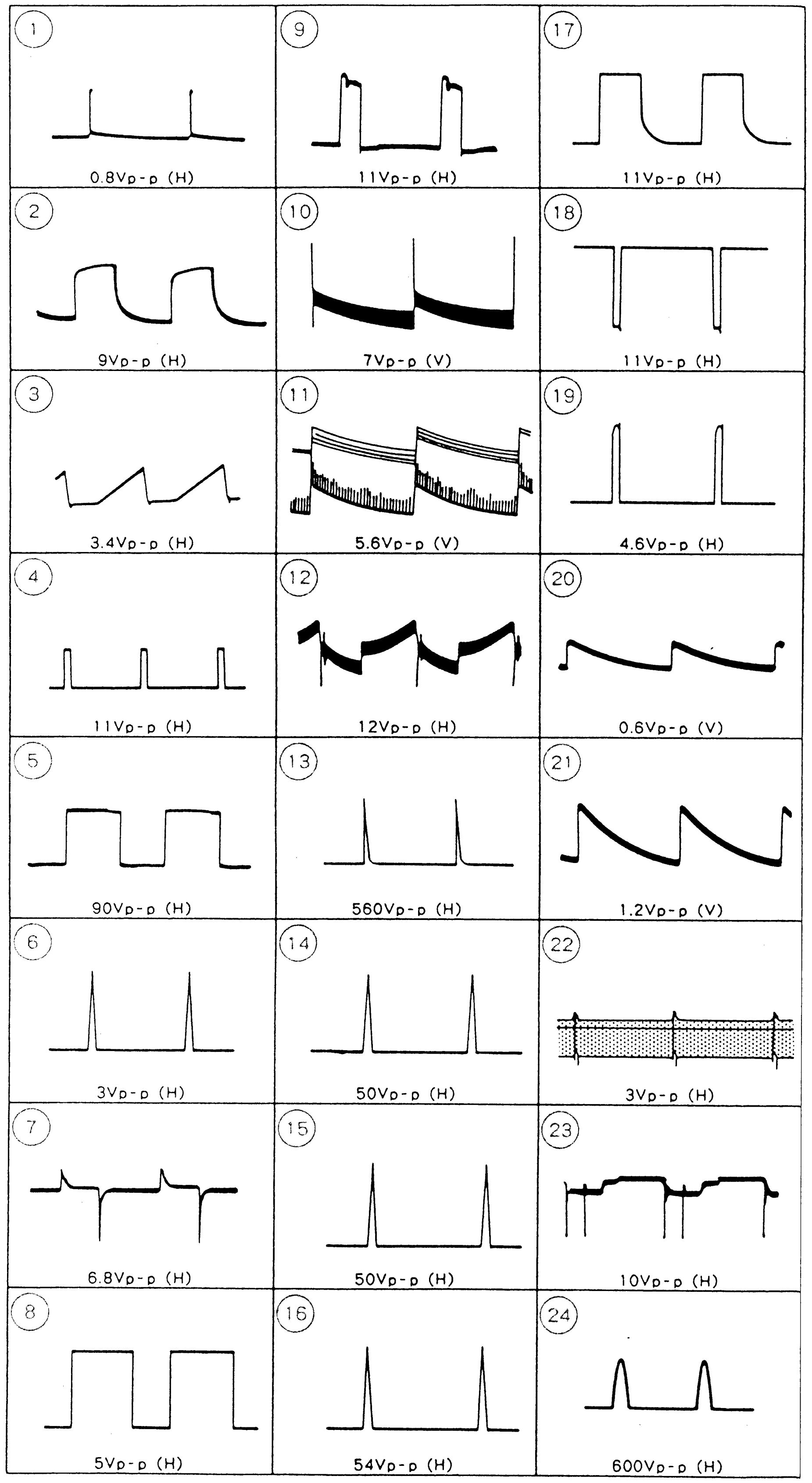
12
13
E
SONY
T2
LDT
T3
HBT
T104
HBT
T105
HBT
E-1
E-2
E-3
E-7
TP3
PIN MOD OUT
TP6
H STOP
POWER
IC101
IC103
IC104
IC105
IC106
IC107
IC108
IC109
IC110
IC112
IC113
IC114
1-651-040-11

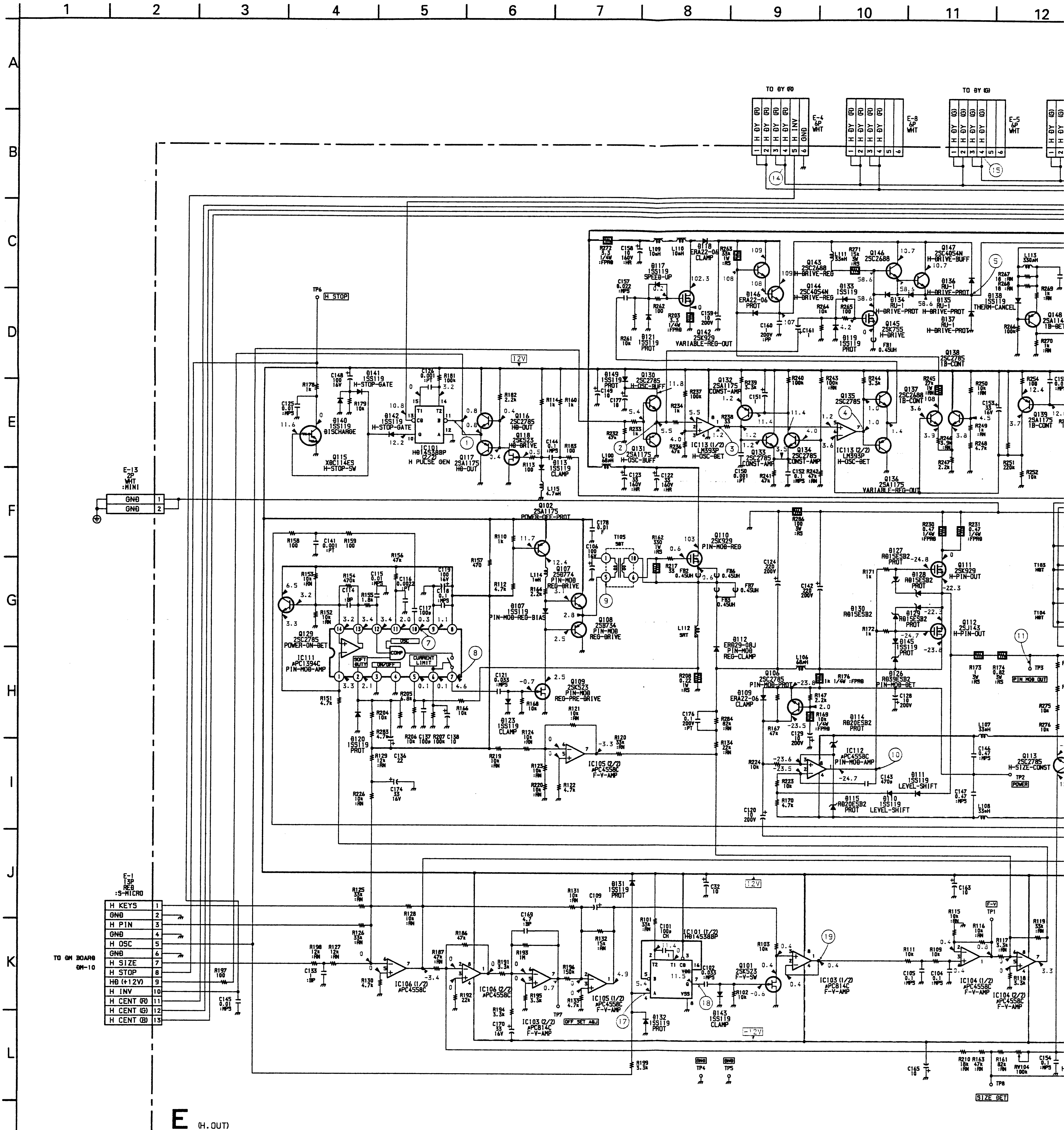
E BOARD

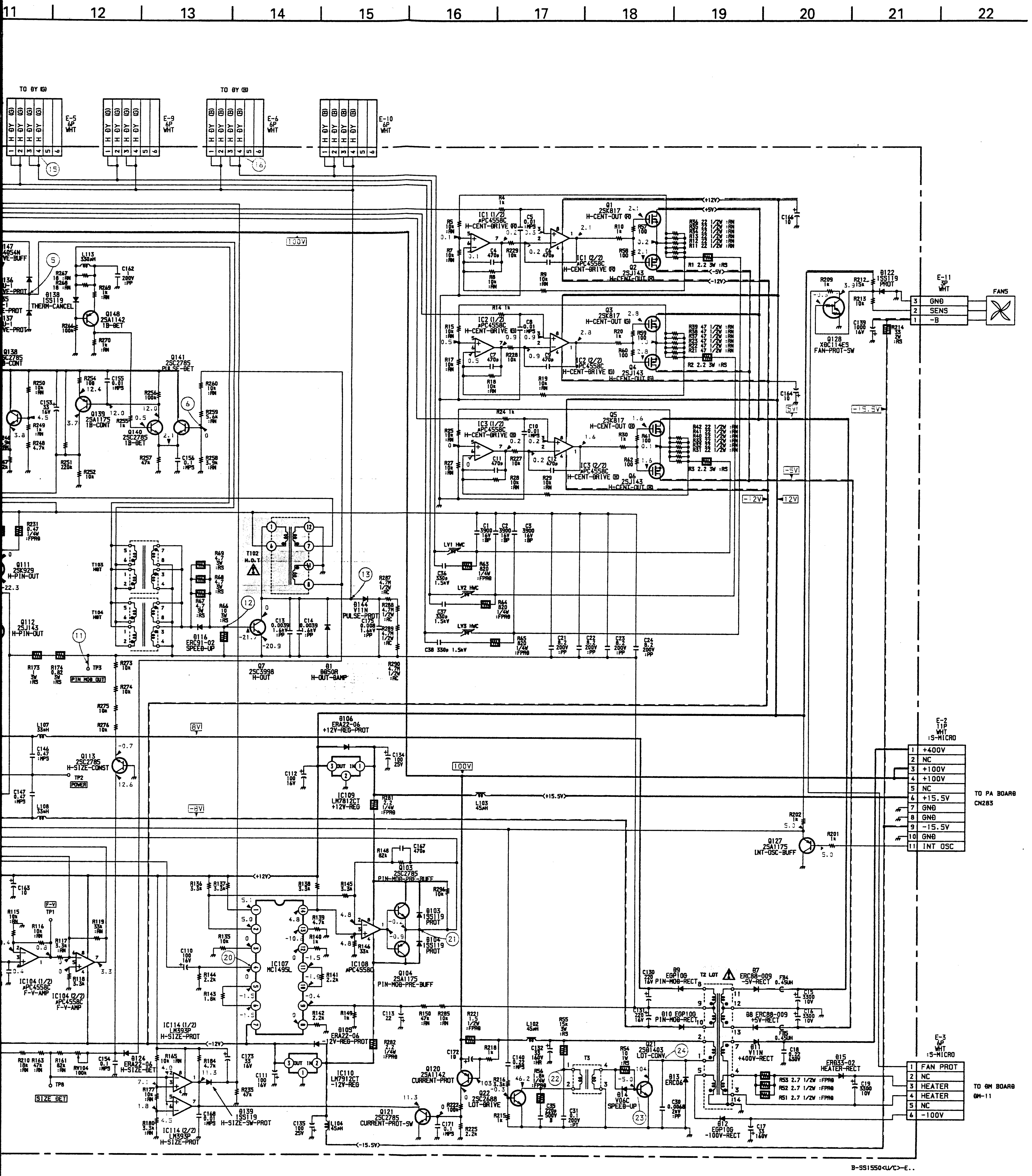
REF.	Pin. No.	PAL
IC301	⑦	1.3
IC501	①	4.9
IC112	①	–24.7
	②	–23.5
	③	–23.5
IC114	②	4.7
	⑤	4.7

REF.		WHITE
Q007	B	–21.6
	C	–0.3
	E	–20.8
Q106	B	–23.6
	C	–23.6
	E	–23.5
Q107	B	3.0
	C	–
	E	2.8
Q108	B	2.5
	C	–
	E	2.8
Q113	B	–
	C	12.7
	E	–
Q137	B	3.8
	C	106.3
	E	3
Q138	B	11.9
	C	3.5
	E	–
Q140	B	11.9
	C	3.5
	E	–
Q143	B	–
	C	11.9
	E	–
Q144	B	112
	C	112.5
	E	111.5
Q146	B	111.4
	C	112.5
	E	110.7
Q147	B	63.5
	C	110.3
	E	63.5
Q148	B	62.5
	C	0.4
	E	60.4

E BOARD




E (H.OUT)
TO DY (R)
TO DY (G)
E-4 6P WHT
E-8 6P WHT
E-5 6P WHT
E-13 2P WHT :MINI
E-1 13P RED :S-MICRO
TO GM BOARD GM-10
H KEYS
GND
H PIN
GND
H OSC
GND
H SIZE
H STOP
HD (+12V)
H INV
H CENT (R)
H CENT (G)
H CENT (B)
TP6 H STOP
Q115 XDC114ES H-STOP-SW
Q140 1SS119 DISCHARGE
Q141 1SS119 H-STOP-GATE
Q142 1SS119 H-STOP-GATE
IC101 HD14538BP (2/2) H PULSE GEN
Q116 2SC2785 HD-OUT
Q117 2SA1175 HD-OUT
Q118 2SK523 HD-DRIVE
Q113 1SS119 CLAMP
Q102 2SA1175 POWER-OFF-PROT
Q129 2SC2785 POWER-ON-DET
IC111 µPC1394C PIN-MOD-AMP
Q107 2SD774 PIN-MOD REG-DRIVE
Q108 2SB734 PIN-MOD REG-DRIVE
Q109 2SK523 PIN-MOD REG-PRE-DRIVE
Q110 2SK929 PIN-MOD-REG
Q112 ERD29-08J PIN-MOD REG-CLAMP
IC105 (2/2) µPC4558C F-V-AMP
Q130 2SC2785 H-OSC-BUFF
Q131 2SA1175 H-OSC-BUFF
IC113 (1/2) LM393P H-OSC-DET
IC113 (2/2) LM393P H-OSC-DET
Q132 2SA1175 CONST-AMP
Q133 2SC2785 CONST-AMP
Q134 2SC2785 CONST-AMP
Q135 2SC2785
Q136 2SA1175 VARIABLE-REG-OUT
Q137 2SC2688 DB-CONT
Q138 2SC2785 DB-CONT
Q139 2SA1175 DB-DET
Q142 2SK929 VARIABLE-REG-OUT
Q143 2SC2688 H-DRIVE-REG
Q144 2SC4054N H-DRIVE-REG
Q145 2SK755 H-DRIVE
Q146 2SC2688
Q147 2SC4054N H-DRIVE-BUFF
Q111 2SK929 H-PIN-OUT
Q112 2SJ143 H-PIN-OUT
Q106 2SC2785 PIN-MOD-PROT
IC112 µPC4558C PIN-MOD-AMP
Q113 2SC2785 H-SIZE-CONST
IC106 (1/2) µPC4558C
IC106 (2/2) µPC4558C
IC103 (2/2) µPC814C F-V-AMP
IC105 (1/2) µPC4558C F-V-AMP
IC101 (1/2) HD14538BP
Q101 2SK523 F-V-SW
IC103 (1/2) µPC814C F-V-AMP
IC104 (1/2) µPC4558C F-V-AMP
IC104 (2/2) µPC4558C F-V-AMP
12V
-12V
TP1 F-V
TP2 POWER
TP3 PIN MOD OUT
TP7 OFF SET ADJ
TP8 SIZE DET
TP4 GND
TP5 GND


11
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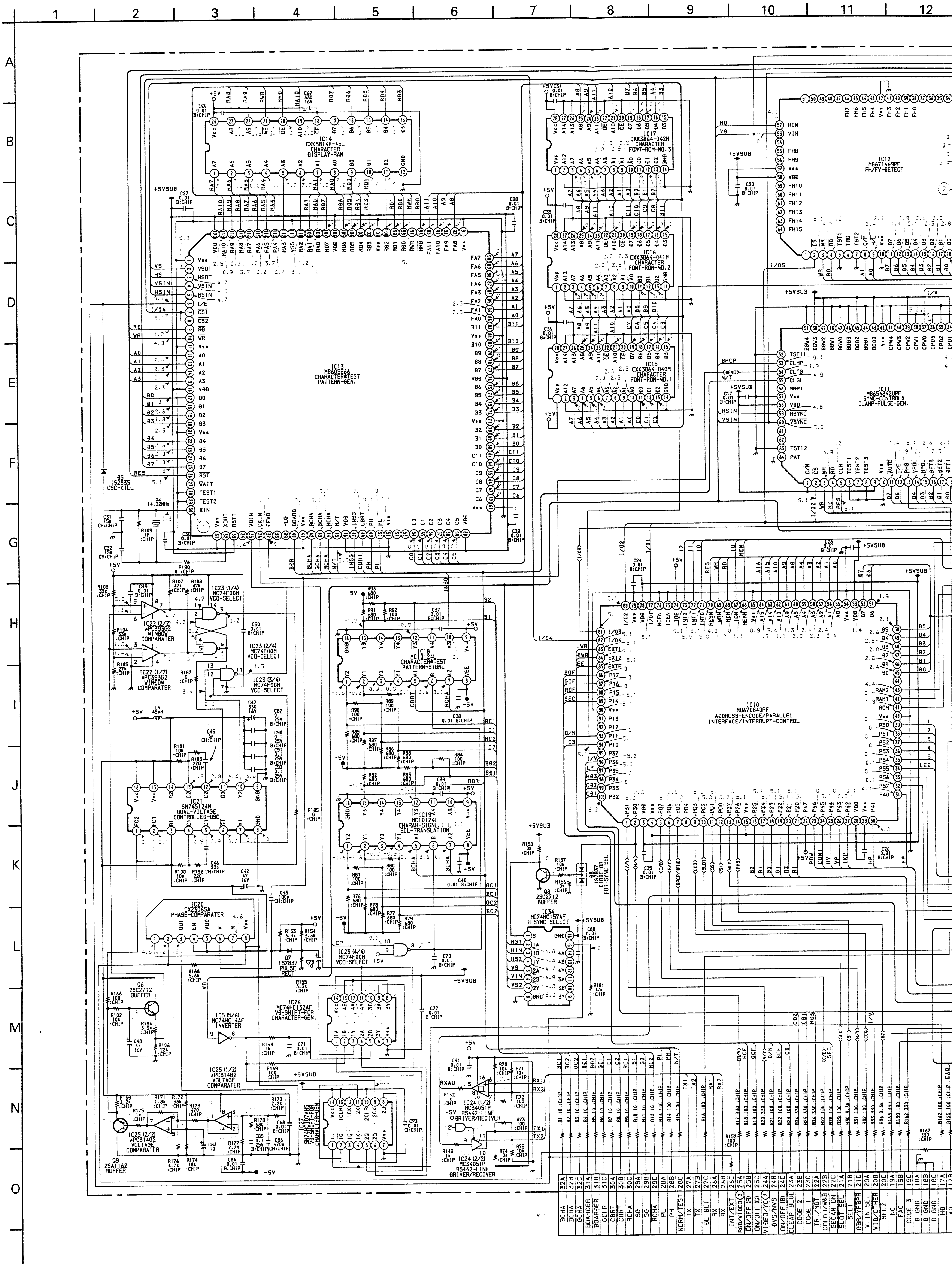
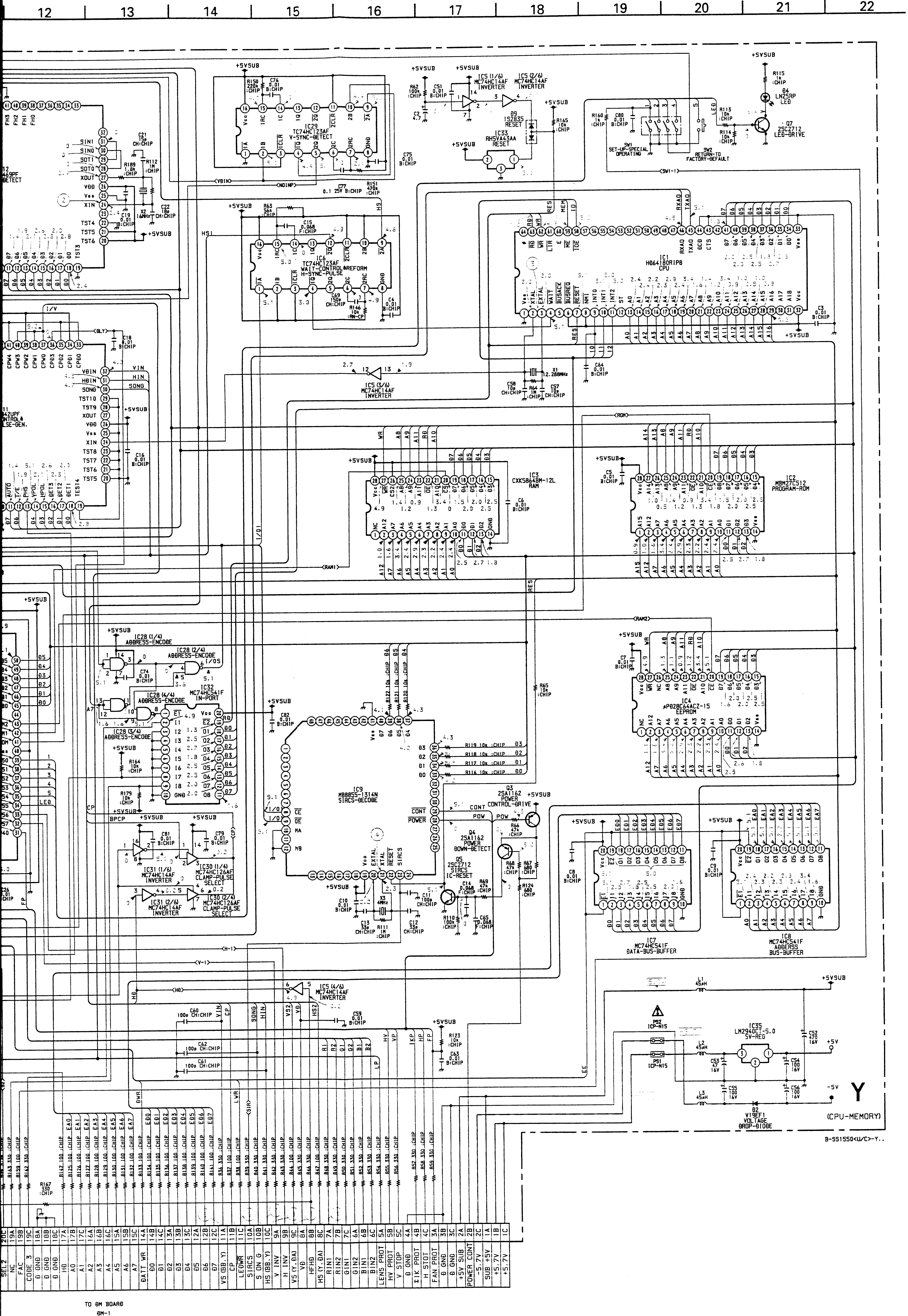
22
TO DY (G)
TO DY (B)
E-5 6P WHT
E-9 6P WHT
E-6 6P WHT
E-10 6P WHT
IC1 (1/2) μPC4558C H-CENT-DRIVE (R)
IC1 (2/2) μPC4558C H-CENT-DRIVE (R)
Q1 2SK817 H-CENT-OUT (R)
Q2 2SJ143 H-CENT-OUT (R)
IC2 (1/2) μPC4558C H-CENT-DRIVE (G)
IC2 (2/2) μPC4558C H-CENT-DRIVE (G)
Q3 2SK817 H-CENT-OUT (G)
Q4 2SJ143 H-CENT-OUT (G)
IC3 (1/2) μPC4558C H-CENT-DRIVE (B)
IC3 (2/2) μPC4558C H-CENT-DRIVE (B)
Q5 2SK817 H-CENT-OUT (B)
Q6 2SJ143 H-CENT-OUT (B)
D122 1SS119 PROT
Q128 XDC114ES FAN-PROT-SW
E-11 3P WHT
1 -B
2 SENS
3 GND
FANS
Q138 1SS119 THERM-CANCEL
Q148 2SA1142 IB-DET
Q139 2SA1175 IB-CONT
Q140 2SC2785 IB-DET
Q141 2SC2785 PULSE-DET
Q111 2SK929 H-PIN-OUT
Q112 2SJ143 H-PIN-OUT
T103 HDT
T104 HDT
T102 H.D.T
D116 ERC91-02 SPEED-UP
Q7 2SC3998 H-OUT
D1 D650R H-OUT-DAMP
D144 V11N PULSE-PROT
PIN MOD OUT
Q113 2SC2785 H-SIZE-CONST
POWER
D106 ERA22-06 +12V-REG-PROT
IC109 LM7812CT +12V-REG
IC110 LM7912CT -12V-REG
D109 ERA22-06 -12V-REG-PROT
Q127 2SA1175 INT-OSC-BUFF
E-2 11P WHT :S-MICRO
1 +400V
2 NC
3 +100V
4 +100V
5 NC
6 +15.5V
7 GND
8 GND
9 -15.5V
10 GND
11 INT OSC
TO PA BOARD CN283
Q103 2SC2785 PIN-MOD-PRE-BUFF
Q104 2SA1175 PIN-MOD-PRE-BUFF
D103 1SS119 PROT
D104 1SS119 PROT
IC107 MC1495L
IC108 μPC4558C
IC104 (1/2) μPC4558C F-V-AMP
IC104 (2/2) μPC4558C F-V-AMP
F-V
IC114 (1/2) LM393P H-SIZE-PROT
IC114 (2/2) LM393P H-SIZE-PROT
D124 ERA22-06 H-SIZE-DET
D139 1SS119 H-SIZE-SW-PROT
SIZE DET
Q120 2SA1142 CURRENT-PROT
Q121 2SC2785 CURRENT-PROT-SW
Q22 2SC2688 LOT-DRIVE
Q21 2SD1403 LOT-CONV
D14 V06C SPEED-UP
D13 ERC06
T3
T2 LOT
D9 EGP10G PIN-MOD-RECT
D10 EGP10G PIN-MOD-RECT
D7 ERC88-009 -5V-RECT
D8 ERC88-009 +5V-RECT
D11 V11N +400V-RECT
D12 EGP10G -100V-RECT
D15 ERB33-02 HEATER-RECT
E-3 6P WHT :S-MICRO
1 FAN PROT
2 NC
3 HEATER
4 HEATER
5 NC
6 -100V
TO GM BOARD GM-11
100V
8V
-8V
+15.5V
-15.5V
5V
-5V
12V
-12V
B-SS1550<U/C>-E..


IC14 CXK5814P-45L CHARACTER DISPLAY-RAM
IC13 MB605E66 CHARACTER&TEST PATTERN-GEN.
IC17 CXK3864-042M CHARACTER FONT-ROM-NO.3
IC16 CXK3864-041M CHARACTER FONT-ROM-NO.2
IC15 CXK3864-040M CHARACTER FONT-ROM-NO.1
IC12 MB671469PF FH/FV-DETECT
IC11 MB654842UPF SYNC-CONTROL& CLAMP-PULSE-GEN.
IC10 MB670840PF ADDRESS-ENCODE/PARALLEL INTERFACE/INTERRUPT-CONTROL
IC22 (2/2) μPC393G2 WINDOW COMPARATER
IC22 (1/2) μPC393G2 WINDOW COMPARATER
IC23 (1/4) MC74F00M VCO-SELECT
IC23 (2/4) MC74F00M VCO-SELECT
IC23 (3/4) MC74F00M VCO-SELECT
IC23 (4/4) MC74F00M VCO-SELECT
IC21 SN74S124N DUAL-VOLTAGE CONTROLLED-OSC
IC20 CX23065A PHASE-COMPARATER
IC18 MC10124L CHARACTER&TEST PATTERN-SIGNL
IC19 MC10124L CHARAR-SIGNL TTL ECL-TRANSLATION
IC26 MC74HC132AF VD-SHIFT-FOR CHARACTER-GEN.
IC5 (5/6) MC74HC14AF INVERTER
IC25 (1/2) μPC814G2 VOLTAGE COMPARATER
IC25 (2/2) μPC814G2 VOLTAGE COMPARATER
IC27 SN74LS107ANS VD-SHIFT-FOR CHARACTER-GEN.
IC24 (1/2) MC34051P RS442-LINE DRIVER/RECIVER
IC24 (2/2) MC34051P RS442-LINE DRIVER/RECIVER
IC34 MC74HC157AF H-SYNC-SELECT
Q5 1S2835 OSC-KILL
X4 14.32MHz
Q6 2SC2712 BUFFER
Q7 1S2837 PULSE RECT
Q8 2SC2712 BUFFER
Q9 2SA1162 BUFFER
D8 10D5937 FOR-SYNC-SEL
1 2 3 4 5 6 7 8 9 10 11 12
A B C D E F G H I J K L M N O
Y-1


12
13
14
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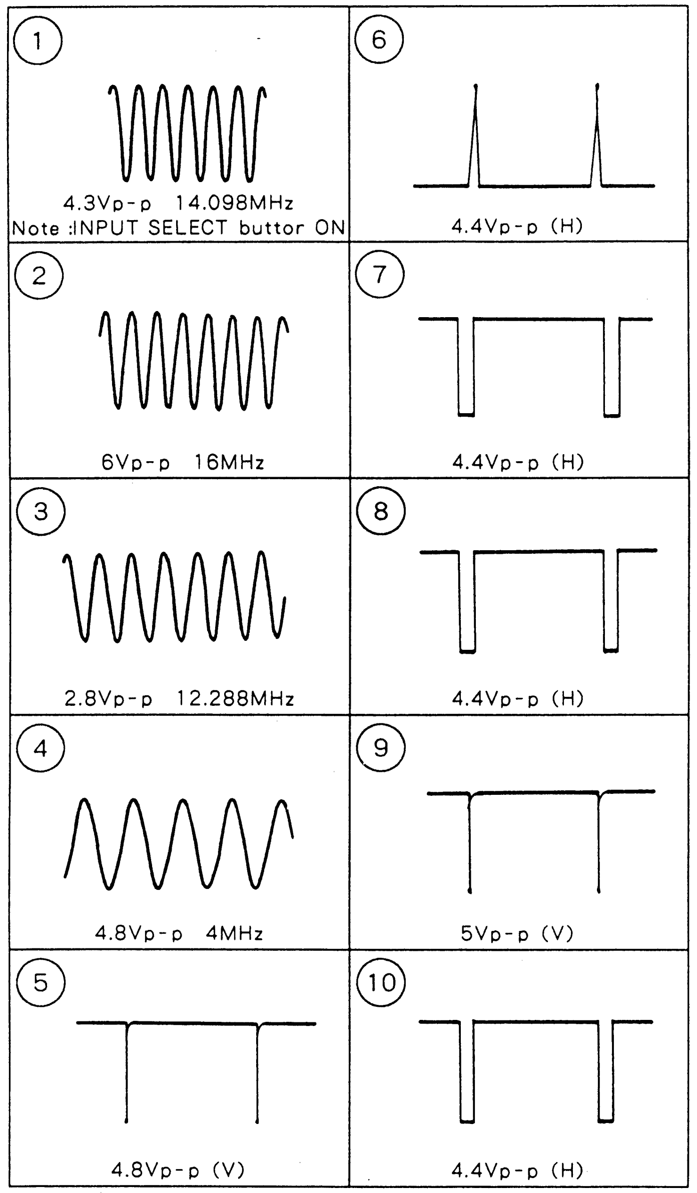
21
22
IC29 TC74HC123AF V-SYNC-DETECT
IC6 TC74HC123AF WAIT-CONTROL & WAVEFORM H-SYNC-PULSE
IC5 (1/6) MC74HC14AF INVERTER
IC5 (2/6) MC74HC14AF INVERTER
IC5 (3/6) MC74HC14AF INVERTER
IC5 (4/6) MC74HC14AF INVERTER
D9 1S2835 RESET
IC33 RHSVA43AA RESET
SW1 SET-UP-SPECIAL OPERATING
SW2 RETURN-TO FACTORY-DEFAULT
D4 LN25RP LED
Q7 2SC2712 LED-DRIVE
IC1 HD64180RIP8 CPU
X1 12.288MHz
IC3 CXK5864BM-12L RAM
IC2 MBM27C512 PROGRAM-ROM
IC4 μPD28C64ACZ-15 EEPROM
IC9 MB885S-1314N SIRCS-DECODE
X3 4MHz
Q3 2SA1162 POWER CONTROL-DRIVE
Q4 2SA1162 POWER DOWN-DETECT
Q5 2SC2712 SIRCS IC-RESET
IC28 (1/4) ADDRESS-ENCODE
IC28 (2/4) ADDRESS-ENCODE
IC28 (3/4) ADDRESS-ENCODE
IC28 (4/4) ADDRESS-ENCODE
IC32 MC74HC541F IN-PORT
IC31 (1/6) MC74HC14AF INVERTER
IC31 (2/6) MC74HC14AF INVERTER
IC30 (1/4) MC74HC126AF CLAMP-PULSE SELECT
IC30 (2/4) MC74HC126AF CLAMP-PULSE SELECT
IC7 MC74HC541F DATA-BUS-BUFFER
IC8 MC74HC541F ADDRESS BUS-BUFFER
IC35 LM2940CT-5.0 5V-REG
PS1 ICP-N15
PS2 ICP-N15
D2 V19EF1 VOLTAGE DROP-DIODE
L1 45μH
L2 45μH
L3 45μH
+5VSUB
+5V
-5V
Y
(CPU-MEMORY)
B-551550<U/C>-Y..
TO BM BOARD BM-1
<RAM1>
<RAM2>
<ROM>
<SW1-1>
<H-1>
<V-1>
<HD>
<VDIN>
<HDINP>

Y [CPU MEMORY]

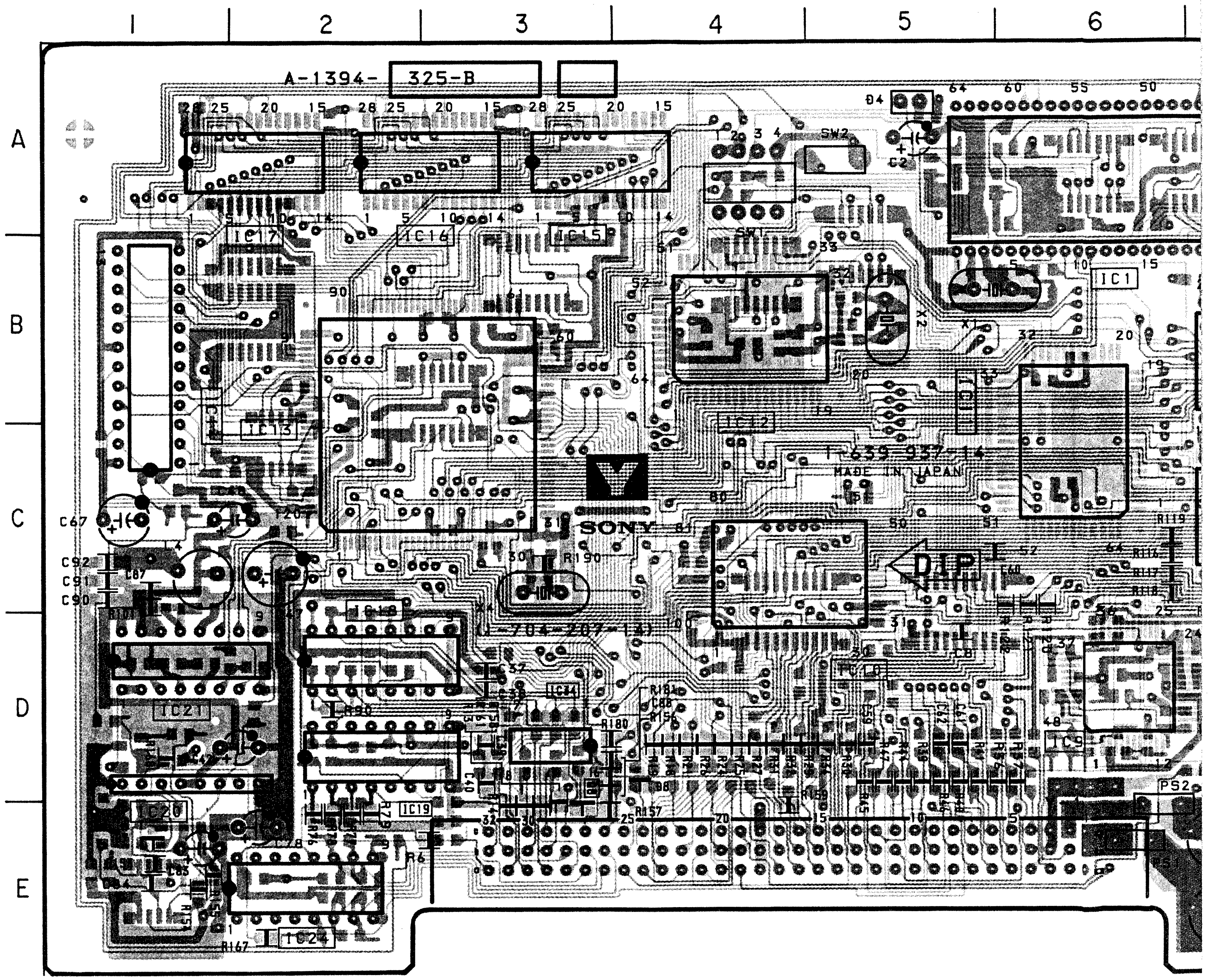
Y BOARD



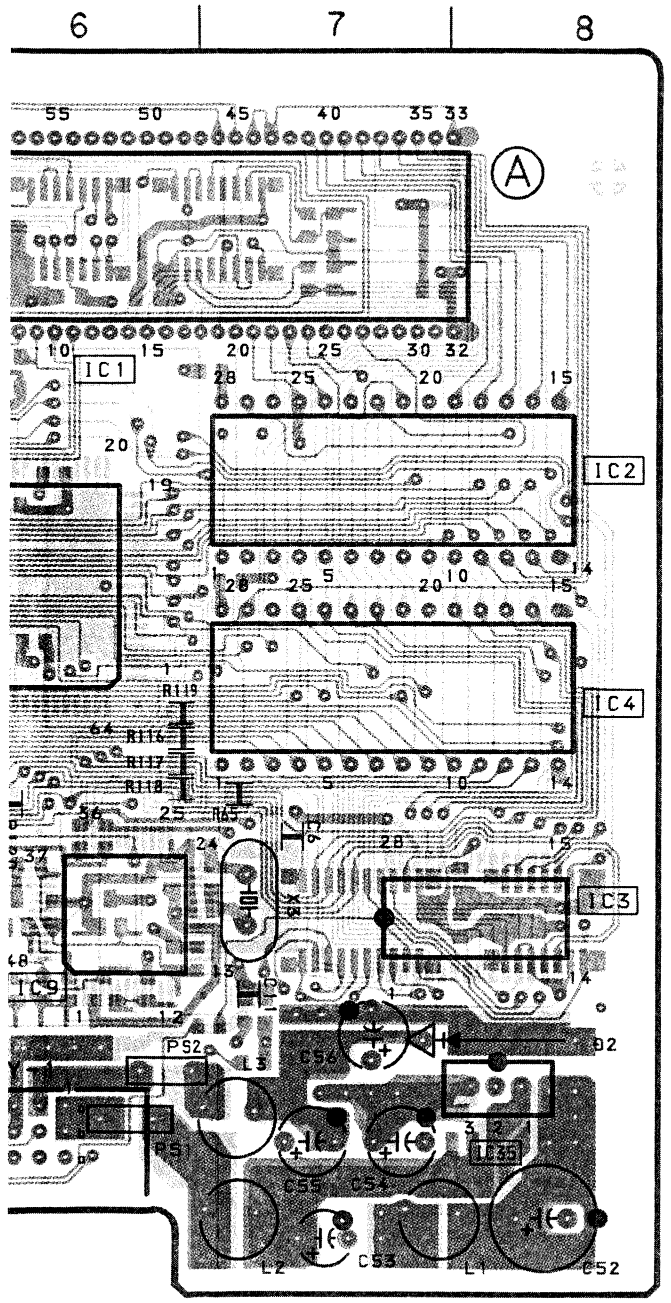
Y BOARD
(COMPONENT SIDE)

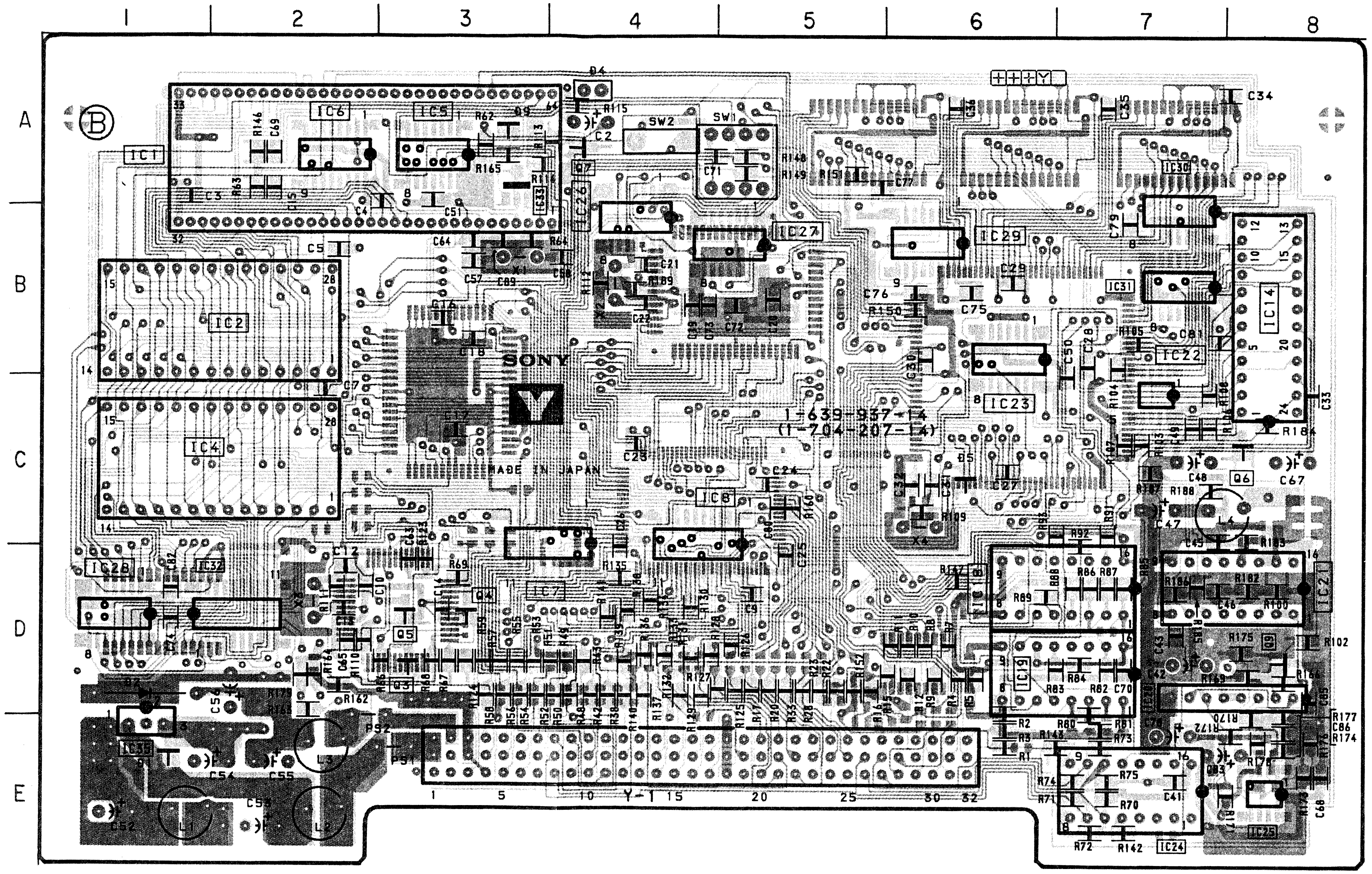
IC	
IC1	A-6
IC2	B-7
IC3	D-8
IC4	C-8
IC9	D-6
IC10	C-4
IC11	C-6
IC12	B-4
IC13	C-2
IC14	B-1
IC15	A-3
IC16	A-2
IC17	A-2
IC18	D-2
IC19	D-2
IC20	D-1
IC21	D-1
IC24	E-2
IC34	D-3
IC35	E-8
TRANSISTOR	
Q8	D-3
DIODE	
D2	D-8
D4	A-5
D7	E-1
D8	D-4

– Y BOARD – **<Component Side>**


1
2
3
4
5
6
A
B
C
D
E
A-1394-325-B
IC17
IC14
IC15
IC16
IC1
IC13
IC12
IC10
IC18
IC21
IC34
IC19
IC20
IC24
IC9
D4
C2
SW2
SW1
Y
SONY
R190
DIP
1-639-937-14
MADE IN JAPAN
1-704-207-14
C67
C92
C91
C90
R119
R147
R6
R180
R157
PS2

<Conductor Side>


6
7
8
A
IC1
IC2
IC4
IC3
IC9
IC35
PS2
L1
L2
L3
C52
C53
C54
C55
C56
D2
X3
R119
R116
R117
R118
R65


1
2
3
4
5
6
7
8
A
B
C
D
E
B
IC1
IC2
IC4
IC5
IC6
IC7
IC8
IC14
IC19
IC21
IC22
IC23
IC24
IC25
IC26
IC27
IC28
IC29
IC30
IC31
IC32
IC33
IC35
SW1
SW2
D4
Q5
Q6
Q9
X4
PS1
PS2
L1
L2
L3
C52
C54
C55
SONY
Y
1-639-937-14
(1-704-207-14)
MADE IN JAPAN
Y-1
1
5
10
15
20
25
30
32

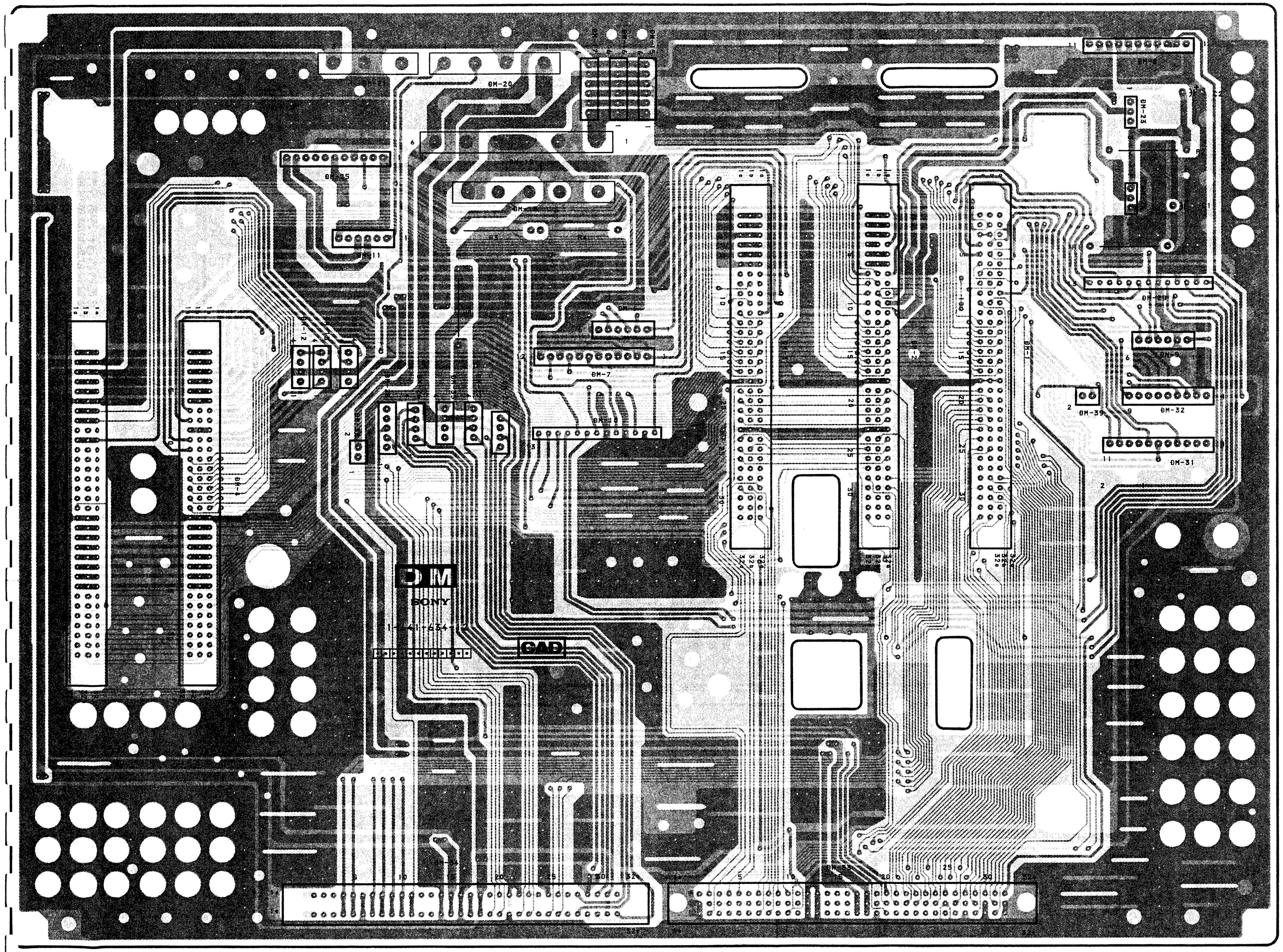
Y BOARD
(CONDUCTOR SIDE)

IC	
IC1	A-2
IC2	B-2
IC4	C-2
IC5	A-3
IC6	A-2
IC7	D-3
IC8	C-4
IC14	B-8
IC18	D-6
IC19	D-6
IC20	D-7
IC21	D-8
IC22	C-7
IC23	B-6
IC24	E-7
IC25	E-8
IC26	B-4
IC27	B-5
IC28	D-1
IC29	B-6
IC30	B-7
IC31	B-7
IC32	D-2
IC33	A-3
IC305	E-1
TRANSISTOR	
Q3	D-3
Q4	D-3
Q5	D-3
Q6	C-8
Q7	A-4
Q9	D-8
DIODE	
D2	D-1
D4	A-4
D5	C-6
D9	A-3

- ░ : Pattern from the side which enables seeing.
- ▓ : Pattern of the rear side.

DM [DEFLECTION MOTHER BOARD]

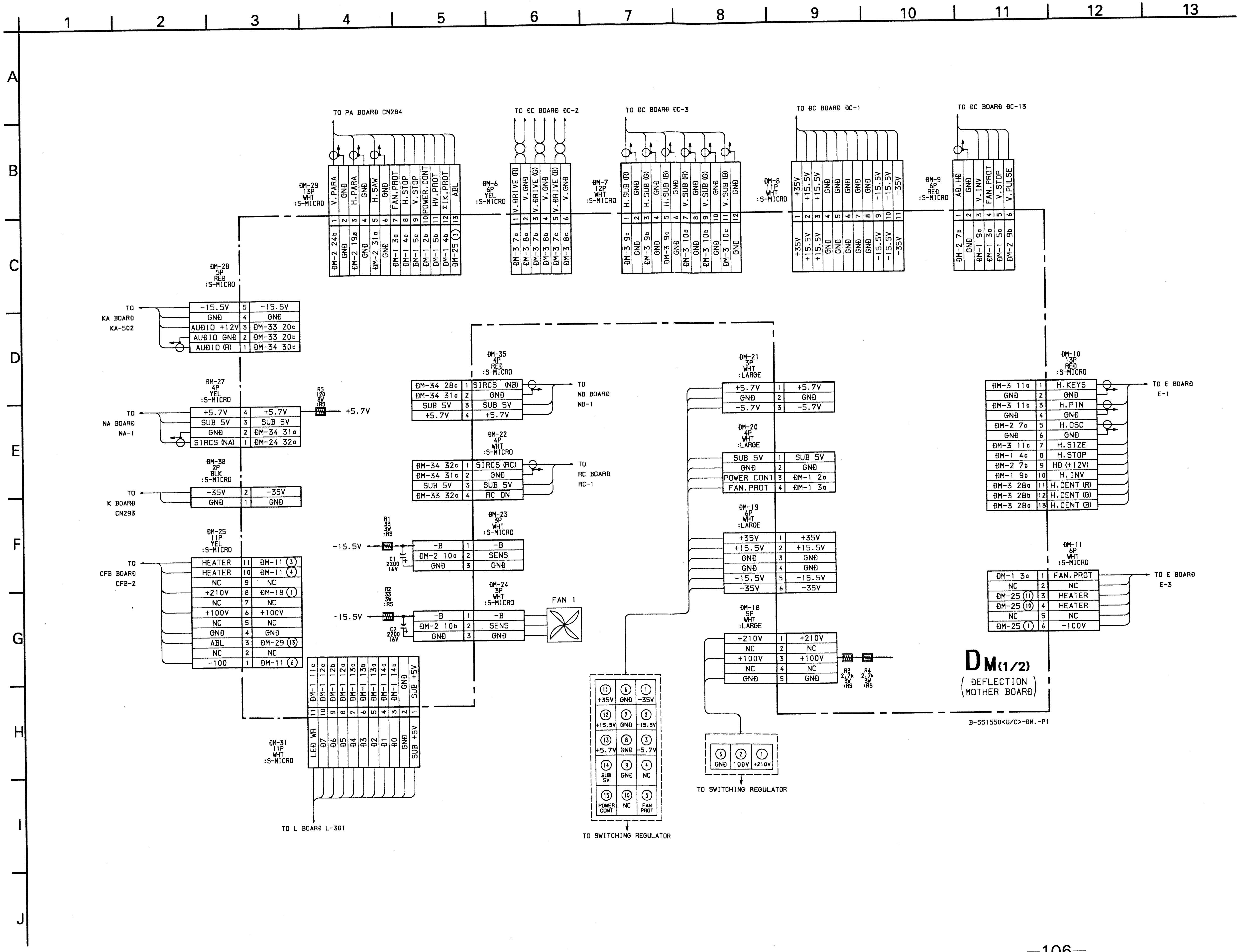
- DM BOARD -


DM
SONY
1-641-434
CAD
DM-20
DM-7
DM-31
DM-32
DM-39
DM-23
1
A
B
C
D
E
F
G
H
I
J

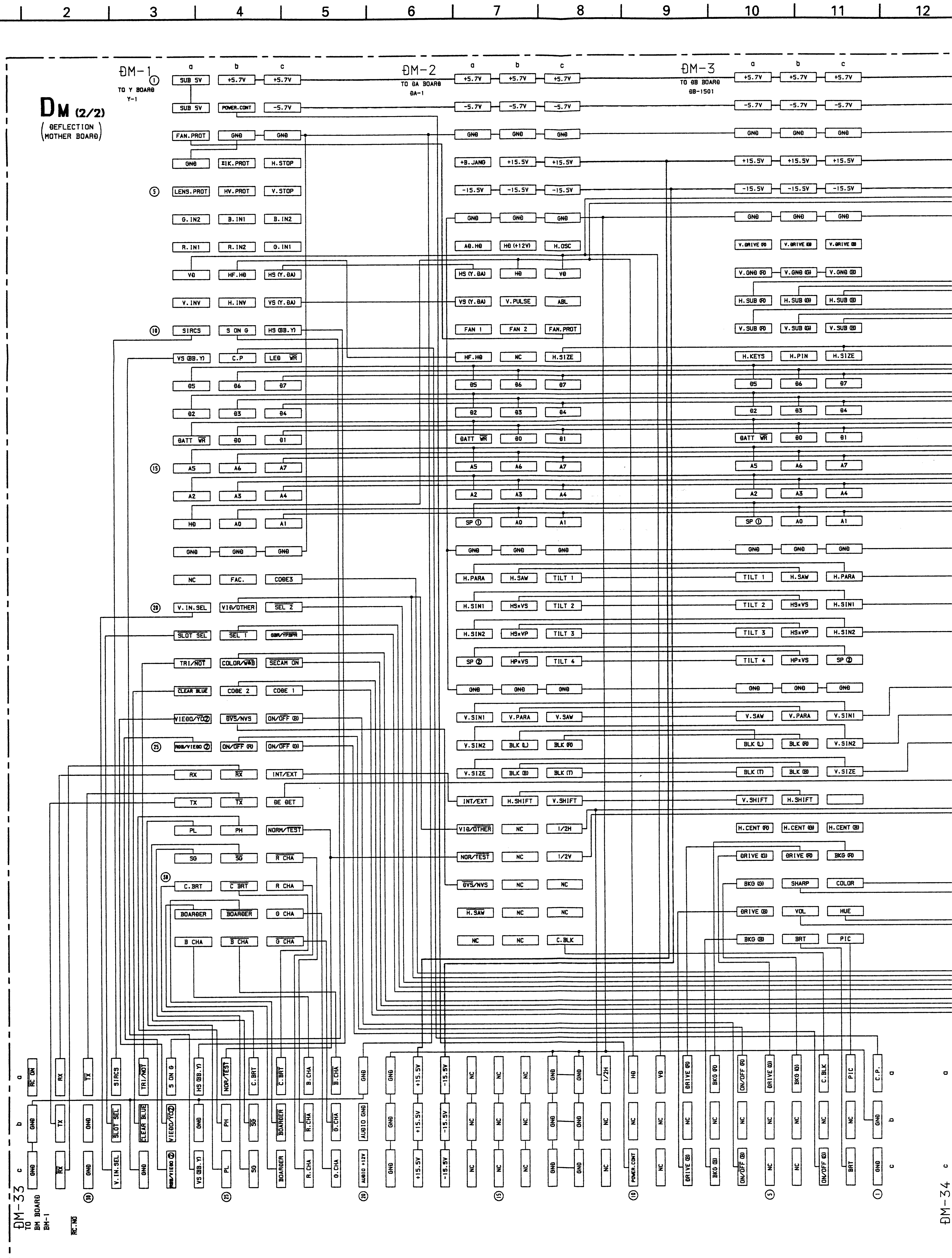
- ░ : Pattern from the side which enables seeing.
- ▓ : Pattern of the rear side.

Schematic diagram

DM (1/2) board ➡


1 2 3 4 5 6 7 8 9 10 11 12 13
A B C D E F G H I J
TO PA BOARD CN284
ĐM-29 13P WHT :S-MICRO
V.PARA GND H.PARA GND H.SAW GND FAN.PROT H.STOP V.STOP POWER.CONT HV.PROT ΣIK.PROT ABL
ĐM-2 24b GND ĐM-2 19a GND ĐM-2 31a GND ĐM-1 3a ĐM-1 4c ĐM-1 5c ĐM-1 2b ĐM-1 5b ĐM-1 4b ĐM-25 ③
TO ĐC BOARD ĐC-2
ĐM-6 6P YEL :S-MICRO
V.DRIVE (R) V.GND V.DRIVE (G) V.GND V.DRIVE (B) V.GND
ĐM-3 7a ĐM-3 8a ĐM-3 7b ĐM-3 8b ĐM-3 7c ĐM-3 8c
TO ĐC BOARD ĐC-3
ĐM-7 12P WHT :S-MICRO
H.SUB (R) GND H.SUB (G) GND H.SUB (B) GND V.SUB (R) GND V.SUB (G) GND V.SUB (B) GND
ĐM-3 9a GND ĐM-3 9b GND ĐM-3 9c GND ĐM-3 10a GND ĐM-3 10b GND ĐM-3 10c GND
TO ĐC BOARD ĐC-1
ĐM-8 11P WHT :S-MICRO
+35V +15.5V +15.5V GND GND GND GND GND -15.5V -15.5V -35V
TO ĐC BOARD ĐC-13
ĐM-9 6P RED :S-MICRO
AD.HD GND V.INV FAN.PROT V.STOP V.PULSE
ĐM-2 7b GND ĐM-1 9a ĐM-1 3a ĐM-1 5c ĐM-2 9b
ĐM-28 5P RED :S-MICRO
TO KA BOARD KA-502
-15.5V 5 -15.5V
GND 4 GND
AUDIO +12V 3 ĐM-33 20c
AUDIO GND 2 ĐM-33 20b
AUDIO (R) 1 ĐM-34 30c
ĐM-27 4P YEL :S-MICRO
TO NA BOARD NA-1
+5.7V 4 +5.7V
SUB 5V 3 SUB 5V
GND 2 ĐM-34 31a
SIRCS (NA) 1 ĐM-24 32a
R5 120 3W :RS +5.7V
ĐM-38 2P BLK :S-MICRO
TO K BOARD CN293
-35V 2 -35V
GND 1 GND
ĐM-25 11P YEL :S-MICRO
TO CFB BOARD CFB-2
HEATER 11 ĐM-11 ③
HEATER 10 ĐM-11 ④
NC 9 NC
+210V 8 ĐM-18 ①
NC 7 NC
+100V 6 +100V
NC 5 NC
GND 4 GND
ABL 3 ĐM-29 ⑬
NC 2 NC
-100 1 ĐM-11 ⑥
ĐM-35 4P RED :S-MICRO
ĐM-34 28c 1 SIRCS (NB)
ĐM-34 31a 2 GND
SUB 5V 3 SUB 5V
+5.7V 4 +5.7V
TO NB BOARD NB-1
ĐM-22 4P WHT :S-MICRO
ĐM-34 32c 1 SIRCS (RC)
ĐM-34 31c 2 GND
SUB 5V 3 SUB 5V
ĐM-33 32c 4 RC ON
TO RC BOARD RC-1
R1 33 3W :RS
-15.5V
C1 2200 16V
ĐM-23 3P WHT :S-MICRO
-B 1 -B
ĐM-2 10a 2 SENS
GND 3 GND
R2 33 3W :RS
-15.5V
C2 2200 16V
ĐM-24 3P WHT :S-MICRO
-B 1 -B
ĐM-2 10b 2 SENS
GND 3 GND
FAN 1
ĐM-31 11P WHT :S-MICRO
ĐM-1 11c ĐM-1 12c ĐM-1 12b ĐM-1 12a ĐM-1 13c ĐM-1 13b ĐM-1 13a ĐM-1 14c ĐM-1 14b GND SUB +5V
LED WR D7 D6 D5 D4 D3 D2 D1 D0 GND SUB +5V
TO L BOARD L-301
ĐM-21 3P WHT :LARGE
+5.7V 1 +5.7V
GND 2 GND
-5.7V 3 -5.7V
ĐM-20 4P WHT :LARGE
SUB 5V 1 SUB 5V
GND 2 GND
POWER CONT 3 ĐM-1 2a
FAN.PROT 4 ĐM-1 3a
ĐM-19 6P WHT :LARGE
+35V 1 +35V
+15.5V 2 +15.5V
GND 3 GND
GND 4 GND
-15.5V 5 -15.5V
-35V 6 -35V
ĐM-18 5P WHT :LARGE
+210V 1 +210V
NC 2 NC
+100V 3 +100V
NC 4 NC
GND 5 GND
R3 2.7k 3W :RS
R4 2.7k 3W :RS
⑪ +35V ⑥ GND ① -35V
⑫ +15.5V ⑦ GND ② -15.5V
⑬ +5.7V ⑧ GND ③ -5.7V
⑭ SUB 5V ⑨ GND ④ NC
⑮ POWER CONT ⑩ NC ⑤ FAN PROT
TO SWITCHING REGULATOR
③ GND ② 100V ① +210V
TO SWITCHING REGULATOR
ĐM-10 13P RED :S-MICRO
ĐM-3 11a 1 H.KEYS
GND 2 GND
ĐM-3 11b 3 H.PIN
GND 4 GND
ĐM-2 7c 5 H.OSC
GND 6 GND
ĐM-3 11c 7 H.SIZE
ĐM-1 4c 8 H.STOP
ĐM-2 7b 9 HD (+12V)
ĐM-1 9b 10 H.INV
ĐM-3 28a 11 H.CENT (R)
ĐM-3 28b 12 H.CENT (G)
ĐM-3 28c 13 H.CENT (B)
TO E BOARD E-1
ĐM-11 6P WHT :S-MICRO
ĐM-1 3a 1 FAN.PROT
NC 2 NC
ĐM-25 ⑪ 3 HEATER
ĐM-25 ⑩ 4 HEATER
NC 5 NC
ĐM-25 ① 6 -100V
TO E BOARD E-3
DM (1/2)
(DEFLECTION MOTHER BOARD)
B-SS1550<U/C>-DM.-P1

seeing.

 1
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11
12
A
B
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H
I
J
K
L
M
N
O
DM (2/2)
(DEFLECTION MOTHER BOARD)
DM-1
TO Y BOARD
Y-1
DM-2
TO DA BOARD
DA-1
DM-3
TO DB BOARD
DB-1501
a
b
c
SUB 5V
+5.7V
-5.7V
POWER.CONT
FAN.PROT
GND
EIK.PROT
H.STOP
LENS.PROT
HV.PROT
V.STOP
G.IN2
B.IN1
B.IN2
R.IN1
R.IN2
G.IN1
VD
HF.HD
HS (Y.DA)
V.INV
H.INV
VS (Y.DA)
SIRCS
S ON G
HS (BB.Y)
VS (BB.Y)
C.P
LED WR
D5
D6
D7
D2
D3
D4
DATT WR
D0
D1
A5
A6
A7
A2
A3
A4
HD
A0
A1
NC
FAC.
CODE3
V.IN.SEL
VID/OTHER
SEL 2
SLOT SEL
SEL 1
GBR/YPBPR
TRI/NOT
COLOR/W&B
SECAM ON
CLEAR BLUE
CODE 2
CODE 1
VIDEO/YC②
DVS/NVS
ON/OFF (B)
RGB/VIDEO②
ON/OFF (R)
ON/OFF (G)
RX
INT/EXT
TX
DE DET
PL
PH
NORM/TEST
SG
R CHA
C.BRT
BOARDER
G CHA
B CHA
+B.JANG
+15.5V
-15.5V
AD.HD
HD (+12V)
H.OSC
HD
ABL
V.PULSE
FAN 1
FAN 2
FAN.PROT
H.SIZE
SP ①
H.PARA
H.SAW
TILT 1
H.SIN1
HS×VS
TILT 2
H.SIN2
HS×VP
TILT 3
SP ②
HP×VS
TILT 4
V.SIN1
V.PARA
V.SAW
V.SIN2
BLK (L)
BLK (R)
V.SIZE
BLK (B)
BLK (T)
H.SHIFT
V.SHIFT
1/2H
NOR/TEST
1/2V
C.BLK
V.DRIVE (R)
V.DRIVE (G)
V.DRIVE (B)
V.GND (R)
V.GND (G)
V.GND (B)
H.SUB (R)
H.SUB (G)
H.SUB (B)
V.SUB (R)
V.SUB (G)
V.SUB (B)
H.KEYS
H.PIN
H.CENT (R)
H.CENT (G)
H.CENT (B)
DRIVE (G)
DRIVE (R)
BKG (R)
BKG (G)
SHARP
COLOR
DRIVE (B)
VOL
HUE
BKG (B)
BRT
PIC
RC ON
AUDIO GND
AUDIO +12V
POWER.CONT
C.P.
DM-33
TO
BM BOARD
BM-1
RC.NO
DM-34
①
⑤
⑩
⑮
⑳
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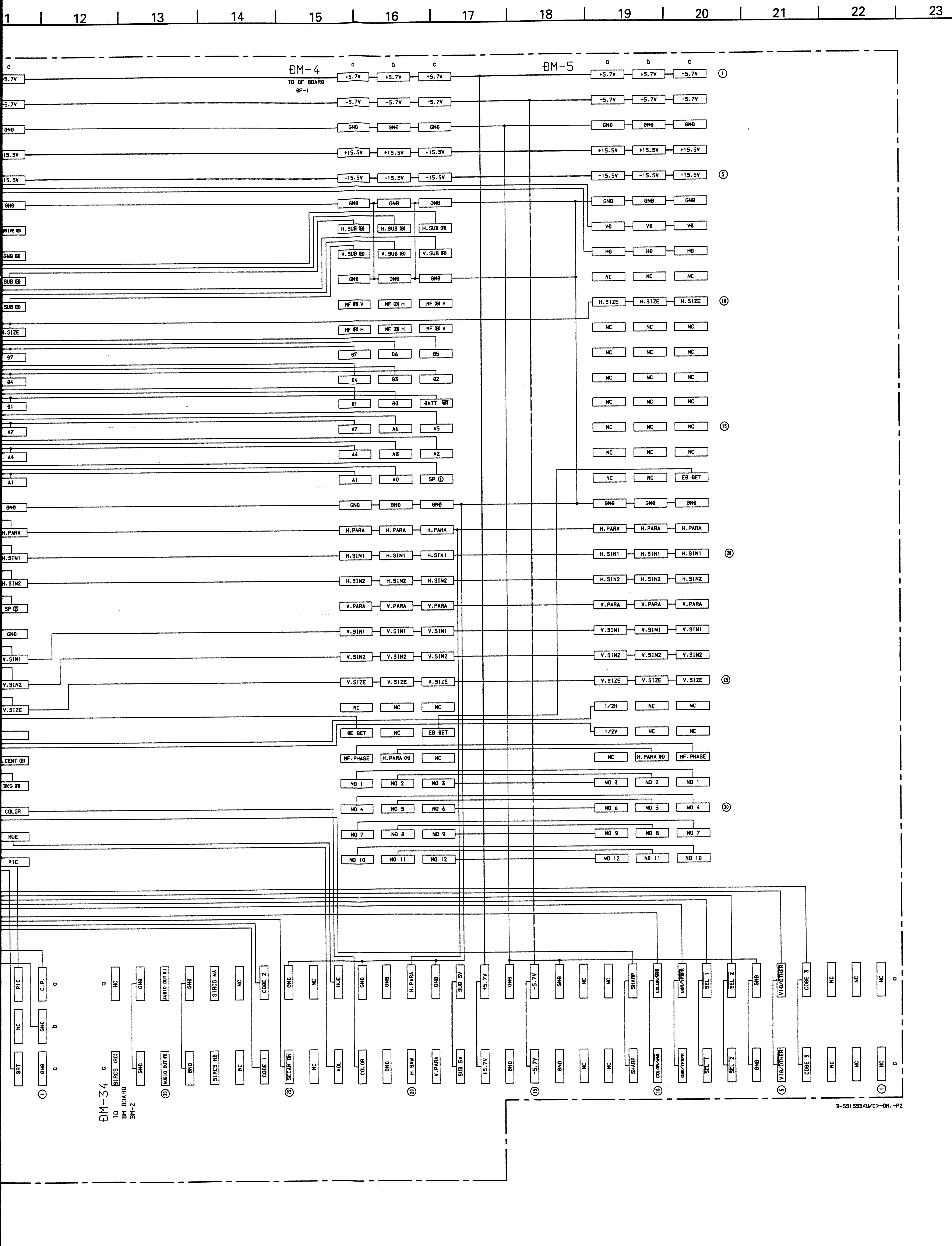

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12
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14
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16
17
18
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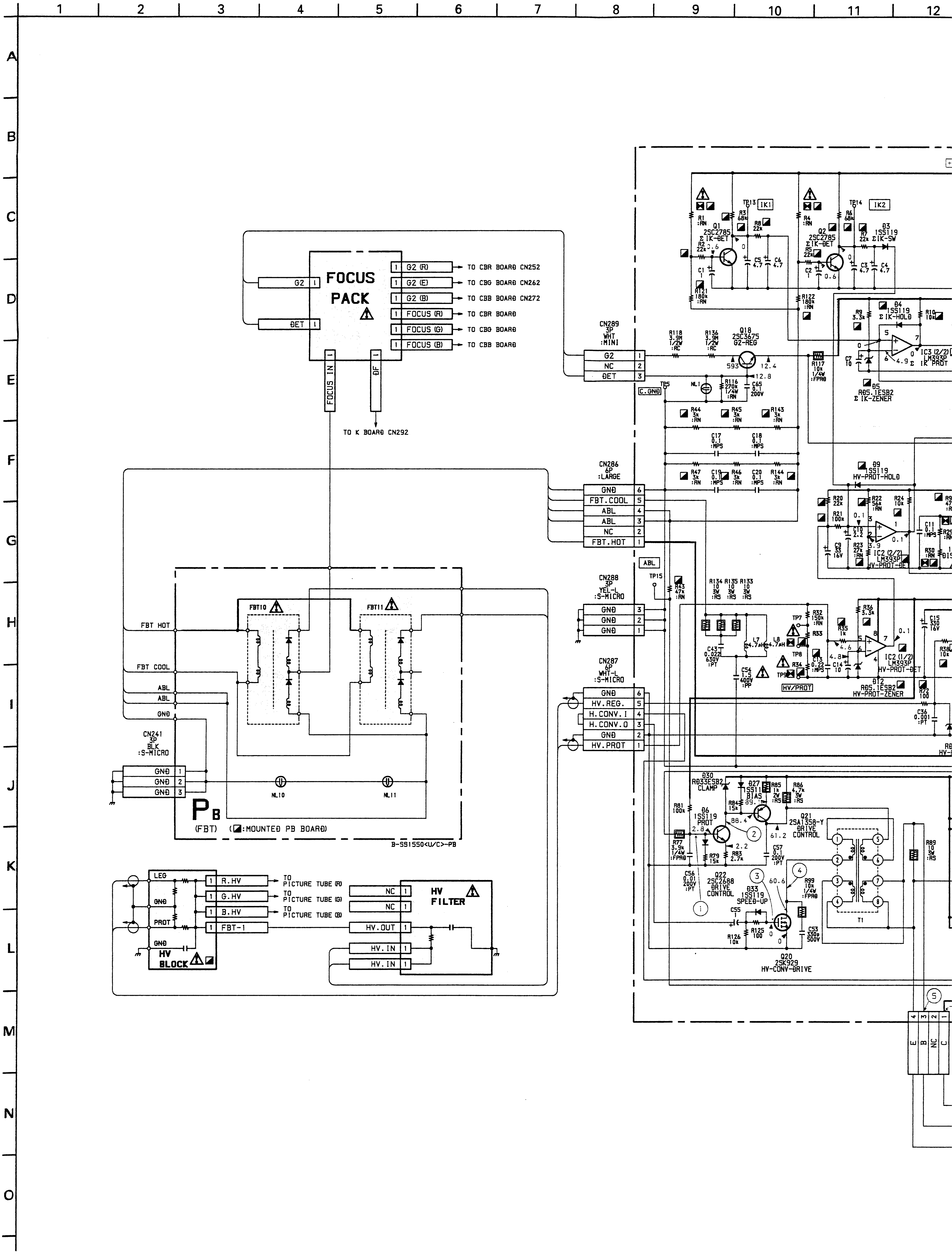
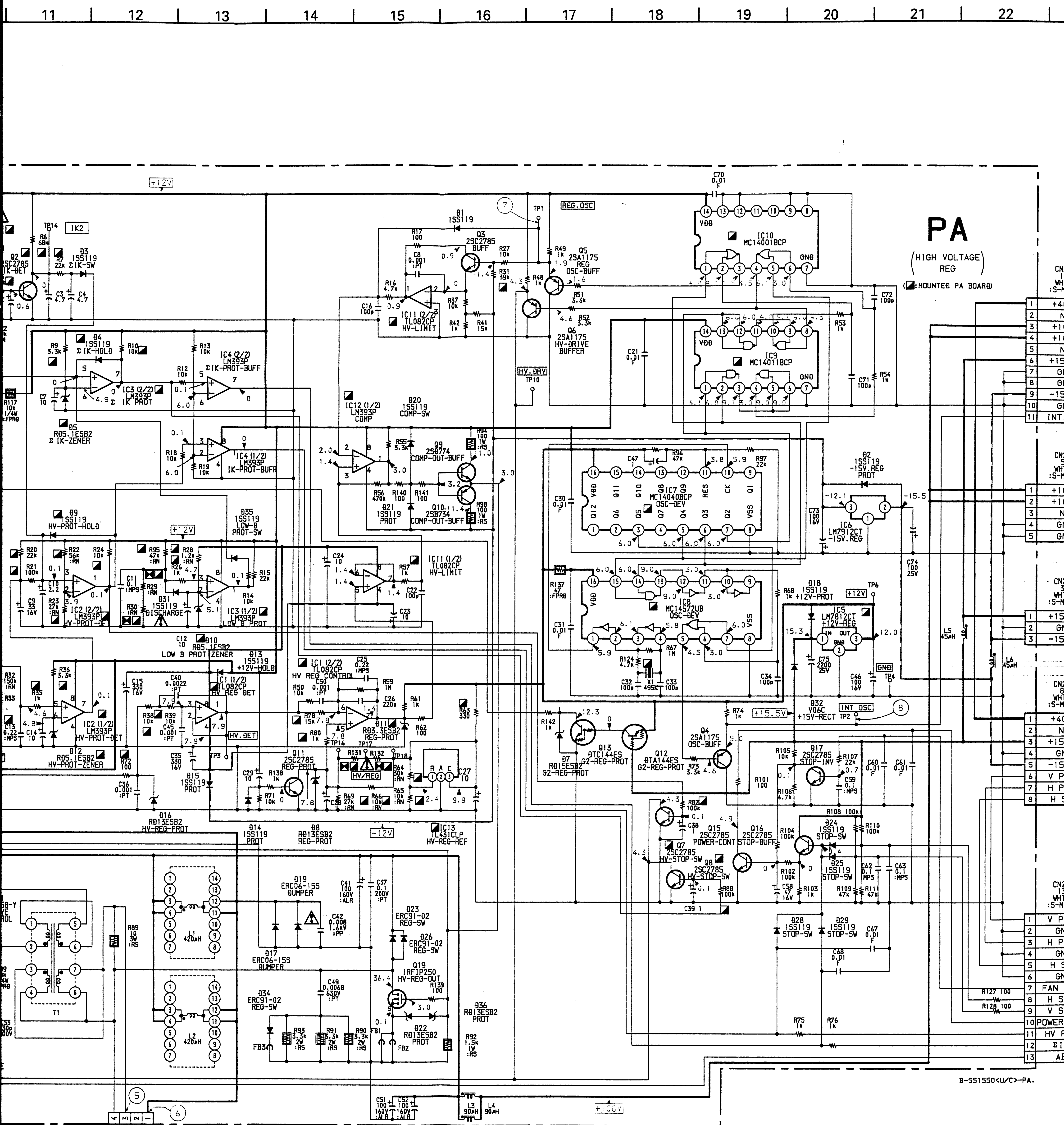
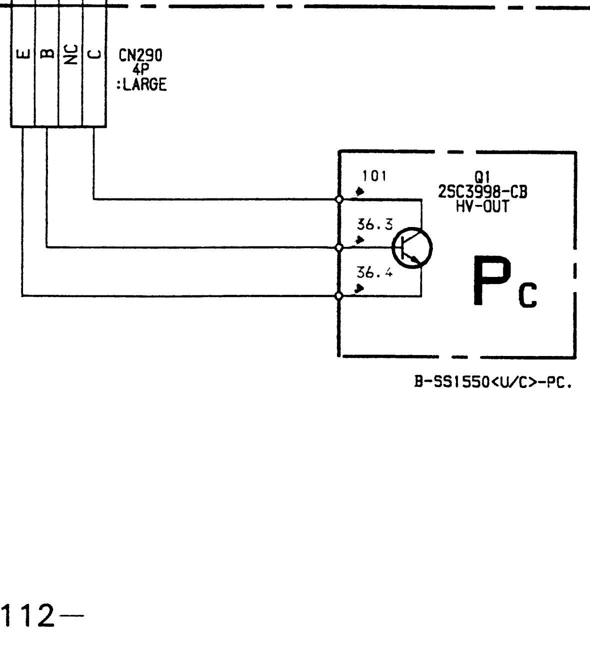
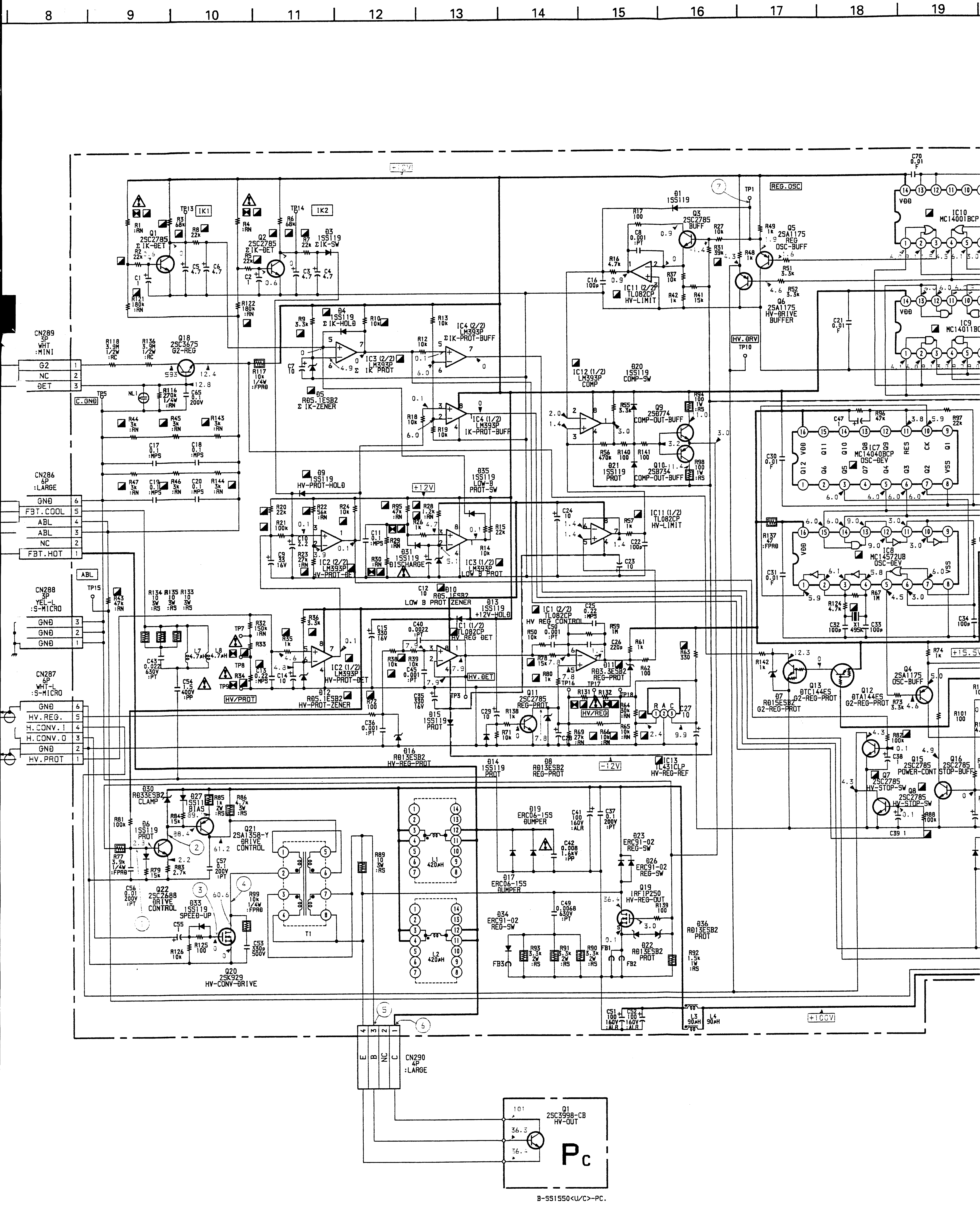
20
21
22
23
DM-4
TO BF BOARD
BF-1
DM-5
a
b
c
+5.7V
-5.7V
GND
+15.5V
-15.5V
VD
HD
NC
H.SUB (B)
H.SUB (G)
H.SUB (R)
V.SUB (B)
V.SUB (G)
V.SUB (R)
MF (R) V
MF (G) H
MF (B) V
MF (R) H
MF (B) H
H.SIZE
D7
D6
D5
D4
D3
D2
D1
D0
BATT WR
A7
A6
A5
A4
A3
A2
A1
A0
SP ①
SP ②
ED DET
DE DET
H.PARA
H.SIN1
H.SIN2
V.PARA
V.SIN1
V.SIN2
V.SIZE
1/2H
1/2V
MF.PHASE
H.PARA (H)
ND 1
ND 2
ND 3
ND 4
ND 5
ND 6
ND 7
ND 8
ND 9
ND 10
ND 11
ND 12
DRIVE (B)
GND (B)
SUB (B)
CENT (B)
BKG (R)
COLOR
HUE
PIC
①
⑤
⑩
⑮
⑳
㉕
㉚
C.P.
BRT
SIRCS (RC)
AUDIO OUT (L)
AUDIO OUT (R)
SIRCS NA
SIRCS NB
CODE 1
CODE 2
SECAM ON
VOL
H.SAW
SUB 5V
SHARP
COLOR/WB
GBR/YPBPR
SEL 1
SEL 2
VID/OTHER
CODE 3
DM-34
TO
BM BOARD
BM-2
B-SS1553<U/C>-DM.-P2

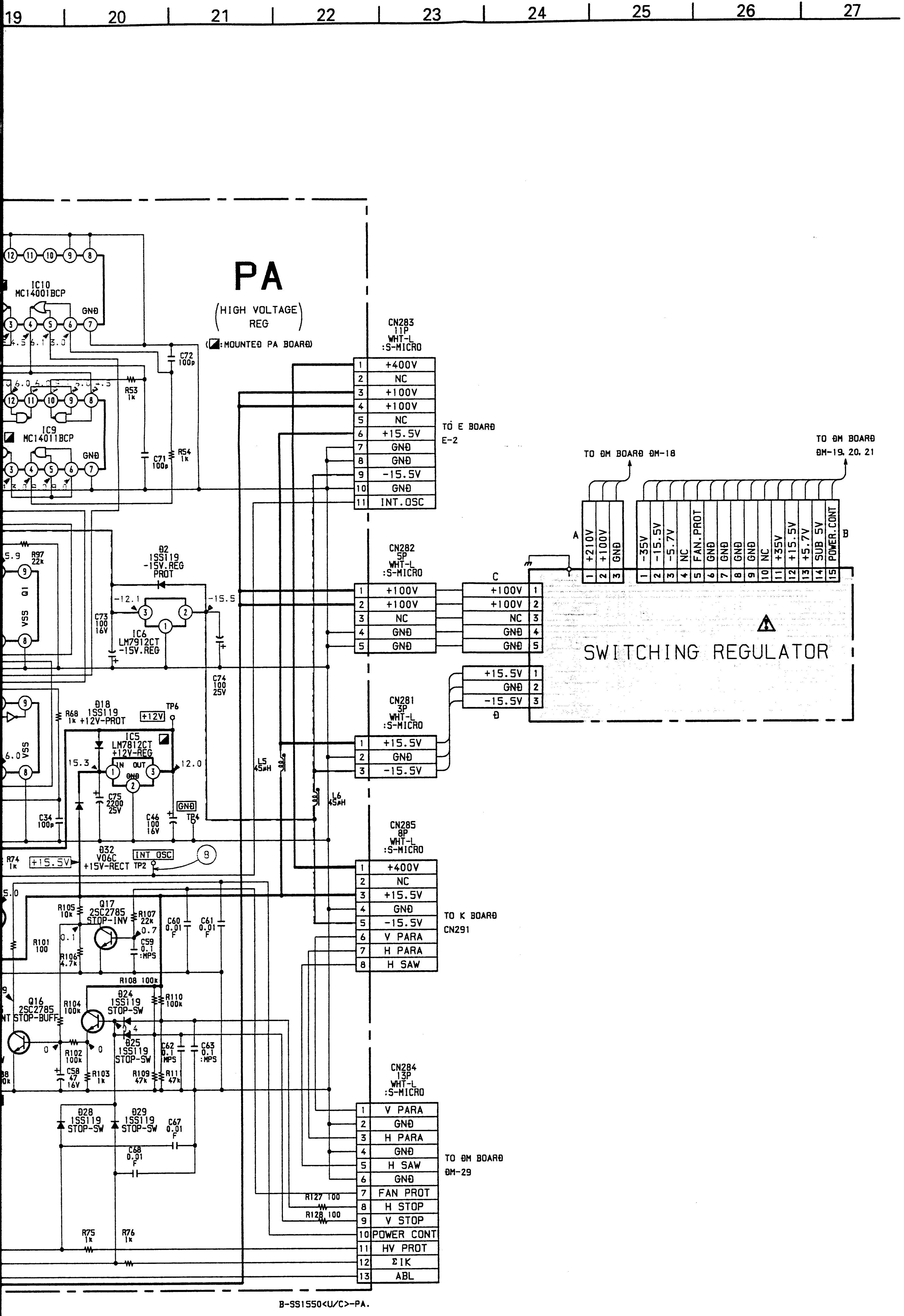

FOCUS PACK
G2
DET
G2 (R)
G2 (G)
G2 (B)
FOCUS (R)
FOCUS (G)
FOCUS (B)
TO CBR BOARD CN252
TO CBG BOARD CN262
TO CBB BOARD CN272
TO CBR BOARD
TO CBG BOARD
TO CBB BOARD
FOCUS IN
DF
TO K BOARD CN292
CN289 3P WHT :MINI
G2
NC
DET
CN286 6P :LARGE
GND
FBT.COOL
ABL
ABL
NC
FBT.HOT
CN288 3P YEL-L :S-MICRO
CN287 6P WHT-L :S-MICRO
HV.REG.
H.CONV.I
H.CONV.O
HV.PROT
FBT HOT
FBT COOL
GND
FBT10
FBT11
CN241 3P BLK :S-MICRO
NL10
NL11
PB
(FBT) (◪:MOUNTED PB BOARD)
B-SS1550<U/C>-PB
LEG
R.HV
G.HV
B.HV
FBT-1
PROT
HV BLOCK
TO PICTURE TUBE (R)
TO PICTURE TUBE (G)
TO PICTURE TUBE (B)
NC
HV FILTER
HV.OUT
HV.IN
Q1 2SC2785 Σ IK-DET
Q2 2SC2785 Σ IK-DET
IK1
IK2
D3 1SS119 Σ IK-SW
D4 1SS119 Σ IK-HOLD
IC3 (2/2) LM393P Σ IK PROT
D5 RD5.1ESB2 Σ IK-ZENER
Q18 2SC3675 G2-REG
C.GND
ABL
D9 1SS119 HV-PROT-HOLD
IC2 (2/2) LM393P HV-PROT-DET
IC2 (1/2) LM393P HV-PROT-DET
D12 RD5.1ESB2 HV-PROT-ZENER
HV/PROT
D30 RD33ESB2 CLAMP
D27 1SS119 BIAS
D6 1SS119 PROT
Q21 2SA1358-Y DRIVE CONTROL
Q22 2SC2688 DRIVE CONTROL
D33 1SS119 SPEED-UP
Q20 2SK929 HV-CONV-DRIVE
T1
1 2 3 4 5 6 7 8 9 10 11 12
A B C D E F G H I J K L M N O


11
12
13
14
15
16
17
18
19
20
21
22
PA
HIGH VOLTAGE REG
(▨:MOUNTED PA BOARD)
+12V
REG.OSC
HV.DRV TP10
IC10 MC14001BCP
IC9 MC14011BCP
IC7 MC14040BCP OSC-DEV
IC8 MC14572UB OSC-DEV
IC6 LM7912CT -15V.REG
IC5 LM7812CT +12V-REG
IC11 (2/2) TL082CP HV-LIMIT
IC11 (1/2) TL082CP HV-LIMIT
IC12 (1/2) LM393P COMP
IC4 (2/2) LM393P ΣIK-PROT-BUFF
IC4 (1/2) LM393P IK-PROT-BUFF
IC3 (2/2) LM393P Σ IK PROT
IC3 (1/2) LM393P LOW B PROT
IC2 (2/2) LM393P HV-PROT-DET
IC2 (1/2) LM393P HV-PROT-DET
IC1 (2/2) TL082CP HV REG CONTROL
IC1 (1/2) TL082CP HV REG DET
IC13 TL431CLP HV-REG-REF
Q2 2SC2785 IK-DET
Q3 2SC2785 BUFF
Q5 2SA1175 REG OSC-BUFF
Q6 2SA1175 HV-DRIVE BUFFER
Q9 2SD774 COMP-OUT-BUFF
Q10 2SB734 COMP-OUT-BUFF
Q11 2SC2785 REG-PROT
Q13 DTC144ES G2-REG-PROT
Q12 DTA144ES G2-REG-PROT
Q4 2SA1175 OSC-BUFF
Q17 2SC2785 STOP-INV
Q15 2SC2785 POWER-CONT
Q16 2SC2785 STOP-BUFF
Q7 2SC2785 HV-STOP-SW
Q8 2SC2785 HV-STOP-SW
Q19 IRFIP250 HV-REG-OUT
D1 1SS119
D2 1SS119 -15V.REG PROT
D3 1SS119 ΣIK-SW
D4 1SS119 Σ IK-HOLD
D5 RD5.1ESB2 Σ IK-ZENER
D9 1SS119 HV-PROT-HOLD
D10 RD5.1ESB2 LOW B PROT ZENER
D12 RD5.1ESB2 HV-PROT-ZENER
D13 1SS119 +12V-HOLD
D14 1SS119 PROT
D15 1SS119 PROT
D16 RD13ESB2 HV-REG-PROT
D8 RD13ESB2 REG-PROT
D17 ERC06-15S DUMPER
D19 ERC06-15S DUMPER
D18 1SS119 +12V-PROT
D20 1SS119 COMP-SW
D21 1SS119 PROT
D22 RD13ESB2 PROT
D23 ERC91-02 REG-SW
D26 ERC91-02 REG-SW
D34 ERC91-02 REG-SW
D36 RD13ESB2 PROT
D24 1SS119 STOP-SW
D25 1SS119 STOP-SW
D28 1SS119 STOP-SW
D29 1SS119 STOP-SW
D31 1SS119 DISCHARGE
D32 V06C +15V-RECT
D35 1SS119 LOW-B PROT-SW
D7 RD15ESB2 G2-REG-PROT
HV.DET
HV/REG
INT OSC
GND
+15.5V
-12V
+100V
L1 420μH
L2 420μH
L3 90μH
L4 90μH
L5 45μH
L6 45μH
T1
X1 495k
TP1
TP2
TP3
TP4
TP6
TP14
TP16
TP17
TP18
IK2
FB1
FB2
FB3
CN290 4P :LARGE
E B NC C
B-SS1550<U/C>-PA.

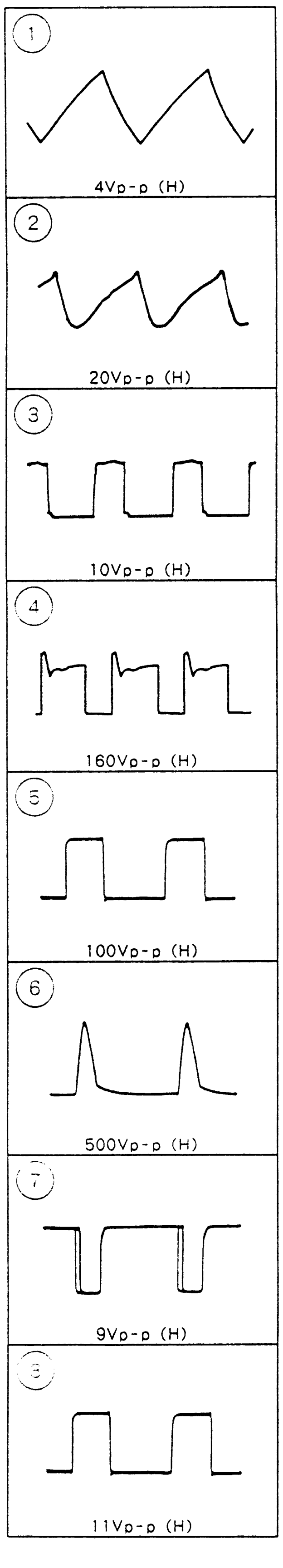

Q1 2SC3998-CB HV-OUT
101
36.3
36.4
Pc
B-SS1550<U/C>-PC.


8
9
10
11
12
13
14
15
16
17
18
19
CN289 3P WHT :MINI
G2
NC
DET
CN286 6P :LARGE
GND
FBT.COOL
ABL
ABL
NC
FBT.HOT
CN288 3P YEL-L :S-MICRO
CN287 6P WHT-L :S-MICRO
HV.REG.
H.CONV.I
H.CONV.O
HV.PROT
Q1 2SC2785 Σ IK-DET
Q2 2SC2785 Σ IK-DET
D3 1SS119 Σ IK-SW
Q18 2SC3675 G2-REG
IC3 (2/2) LM393P IK PROT
IC4 (2/2) LM393P Σ IK-PROT-BUFF
IC4 (1/2) LM393P IK-PROT-BUFF
D5 RD5.1ESB2 Σ IK-ZENER
D9 1SS119 HV-PROT-HOLD
D35 1SS119 LOW-B PROT-SW
IC2 (2/2) LM393P HV-PROT-DET
D31 1SS119 DISCHARGE
IC3 (1/2) LM393P LOW B PROT
D10 RD5.1ESB2 LOW B PROT ZENER
D13 1SS119 +12V-HOLD
IC1 (1/2) TL082CP HV REG DET
IC2 (1/2) LM393P HV-PROT-DET
D12 RD5.1ESB2 HV-PROT-ZENER
D15 1SS119 PROT
D16 RD13ESB2 HV-REG-PROT
D14 1SS119 PROT
D8 RD13ESB2 REG-PROT
IC1 (2/2) TL082CP HV REG CONTROL
D11 RD3.3ESB2 REG-PROT
Q11 2SC2785 REG-PROT
IC13 TL431CLP HV-REG-REF
D1 1SS119
Q3 2SC2785 BUFF
IC11 (2/2) TL082CP HV-LIMIT
IC11 (1/2) TL082CP HV-LIMIT
IC12 (1/2) LM393P COMP
D20 1SS119 COMP-SW
Q9 2SC774 COMP-OUT-BUFF
D21 1SS119 PROT
Q10 2SB734 COMP-OUT-BUFF
Q5 2SA1175 REG OSC-BUFF
Q6 2SA1175 HV-DRIVE BUFFER
REG.OSC
HV.DRV
IC10 MC14001BCP
IC9 MC14011BCP
IC7 MC14040BCP OSC-DEV
IC8 MC14572UB OSC-DEV
Q13 DTC144ES G2-REG-PROT
Q12 DTA144ES G2-REG-PROT
D7 RD15ESB2 G2-REG-PROT
Q4 2SA1175 OSC-BUFF
Q15 2SC2785 POWER-CONT
Q16 2SC2785 STOP-BUFF
Q7 2SC2785 HV-STOP-SW
Q8 2SC2785 HV-STOP-SW
D30 RD33ESB2 CLAMP
D27 1SS119 BIAS
Q21 2SA1358-Y DRIVE CONTROL
D6 1SS119 PROT
Q22 2SC2688 DRIVE CONTROL
D33 1SS119 SPEED-UP
Q20 2SK929 HV-CONV-DRIVE
T1
L1 420μH
L2 420μH
D19 ERC06-15S DUMPER
D17 ERC06-15S DUMPER
D23 ERC91-02 REG-SW
D26 ERC91-02 REG-SW
Q19 IRF1P250 HV-REG-OUT
D34 ERC91-02 REG-SW
D22 RD13ESB2 PROT
D36 RD13ESB2 PROT
L3 90μH
L4 90μH
+12V
-12V
+15.5V
+100V
HV/PROT
HV/REG
HV.DET
C.GND
CN290 4P :LARGE
E
B
NC
C
Q1 2SC3998-CB HV-OUT
Pc

B-SS1550<U/C>-PC.


19
20
21
22
23
24
25
26
27
PA
(HIGH VOLTAGE REG)
(◪:MOUNTED PA BOARD)
IC10
MC14001BCP
IC9
MC14011BCP
GND
C72 100p
R53 1k
C71 100p
R54 1k
CN283
11P
WHT-L
:S-MICRO
1 +400V
2 NC
3 +100V
4 +100V
5 NC
6 +15.5V
7 GND
8 GND
9 -15.5V
10 GND
11 INT.OSC
TO E BOARD
E-2
TO DM BOARD DM-18
TO DM BOARD
DM-19, 20, 21
A
+210V
+100V
GND
B
-35V
-15.5V
-5.7V
NC
FAN.PROT
GND
GND
GND
GND
NC
+35V
+15.5V
+5.7V
SUB 5V
POWER.CONT
SWITCHING REGULATOR
CN282
5P
WHT-L
:S-MICRO
1 +100V
2 +100V
3 NC
4 GND
5 GND
C
+100V 1
+100V 2
NC 3
GND 4
GND 5
+15.5V 1
GND 2
-15.5V 3
D
CN281
3P
WHT-L
:S-MICRO
1 +15.5V
2 GND
3 -15.5V
R97 22k
Q1
VSS
D2
1SS119
-15V.REG
PROT
IC6
LM7912CT
-15V.REG
C73 100 16V
C74 100 25V
-12.1
-15.5
D18
1SS119
+12V-PROT
R68 1k
+12V
TP6
IC5
LM7812CT
+12V-REG
IN OUT
GND
15.3
12.0
C75 2200 25V
C46 100 16V
GND
TP4
C34 100p
L5 45μH
L6 45μH
R74 1k
+15.5V
D32
V06C
+15V-RECT
INT OSC
TP2
8
CN285
8P
WHT-L
:S-MICRO
1 +400V
2 NC
3 +15.5V
4 GND
5 -15.5V
6 V PARA
7 H PARA
8 H SAW
TO K BOARD
CN291
R105 10k
Q17
2SC2785
STOP-INV
R107 22k
0.7
C59 0.1 :MPS
C60 0.01 F
C61 0.01 F
R101 100
R106 4.7k
0.1
R108 100k
Q16
2SC2785
STOP-BUFF
R104 100k
D24
1SS119
STOP-SW
R110 100k
D25
1SS119
STOP-SW
C62 0.1 MPS
C63 0.1 :MPS
R102 100k
C58 47 16V
R103 1k
R109 47k
R111 47k
D28
1SS119
STOP-SW
D29
1SS119
STOP-SW
C67 0.01 F
C68 0.01 F
R75 1k
R76 1k
CN284
13P
WHT-L
:S-MICRO
1 V PARA
2 GND
3 H PARA
4 GND
5 H SAW
6 GND
7 FAN PROT
8 H STOP
9 V STOP
10 POWER CONT
11 HV PROT
12 ΣIK
13 ABL
R127 100
R128 100
TO DM BOARD
DM-29
B-SS1550<U/C>-PA.

PA BOARD


1
4Vp-p (H)
2
20Vp-p (H)
3
10Vp-p (H)
4
160Vp-p (H)
5
100Vp-p (H)
6
500Vp-p (H)
7
9Vp-p (H)
8
11Vp-p (H)

PA [HIGH VOLTAGE REG]

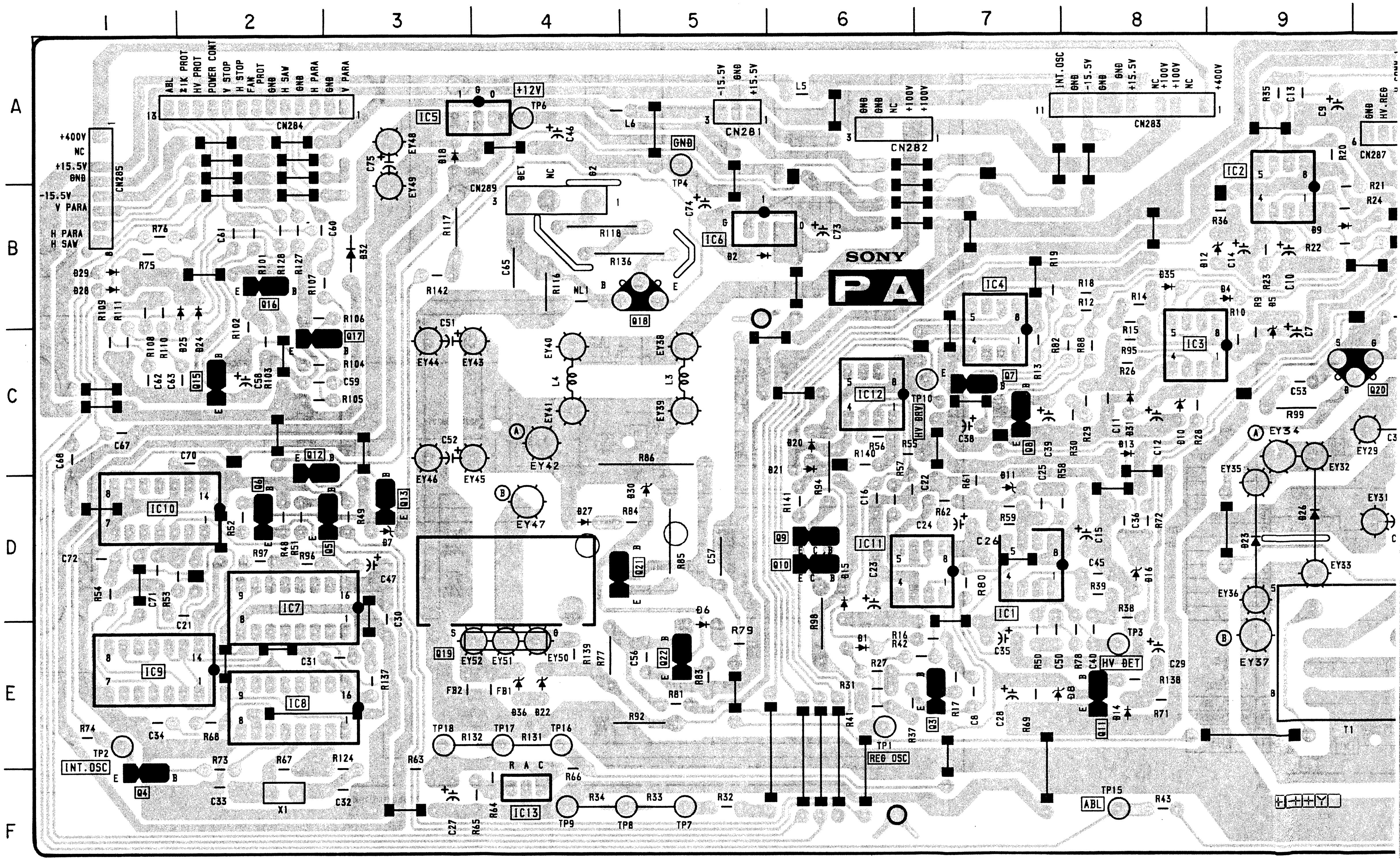
**PA BOARD
(COMPONENT SIDE)**

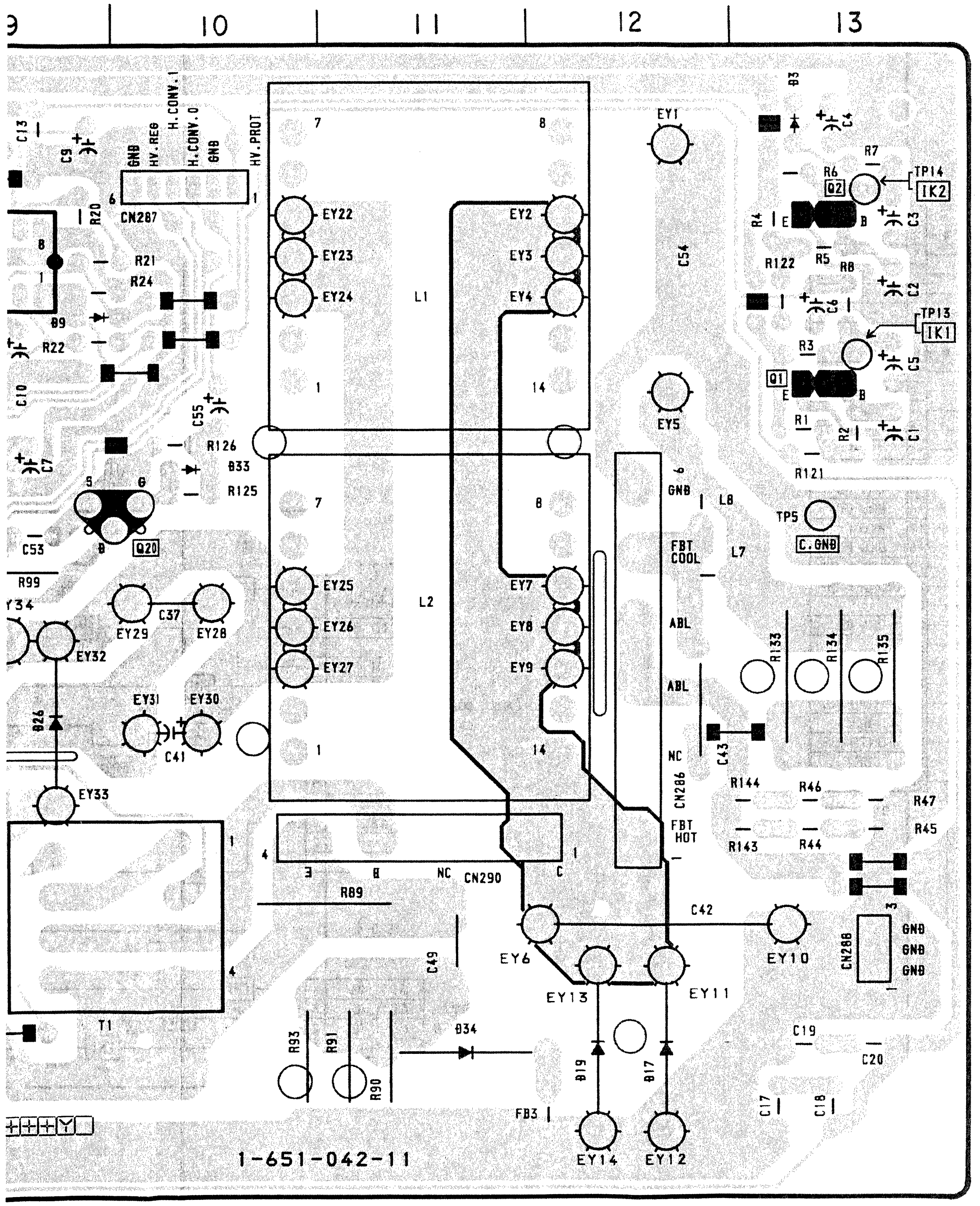
IC	
IC1	D-7
IC2	B-9
IC3	C-8
IC4	C-7
IC5	A-4
IC6	B-5
IC7	D-2
IC8	E-2
IC9	E-1
IC10	D-1
IC11	D-7
IC12	C-6
IC13	F-4

TRANSISTOR	
Q1	B-13
Q2	A-13
Q3	E-7
Q4	F-7
Q5	D-3
Q6	D-2
Q7	C-7
Q8	C-7
Q9	D-6
Q10	D-6
Q11	E-8
Q12	C-2
Q13	D-3
Q15	C-2
Q16	B-2
Q17	C-3
Q18	B-5
Q19	E-4
Q20	C-10
Q21	D-5
Q22	E-5

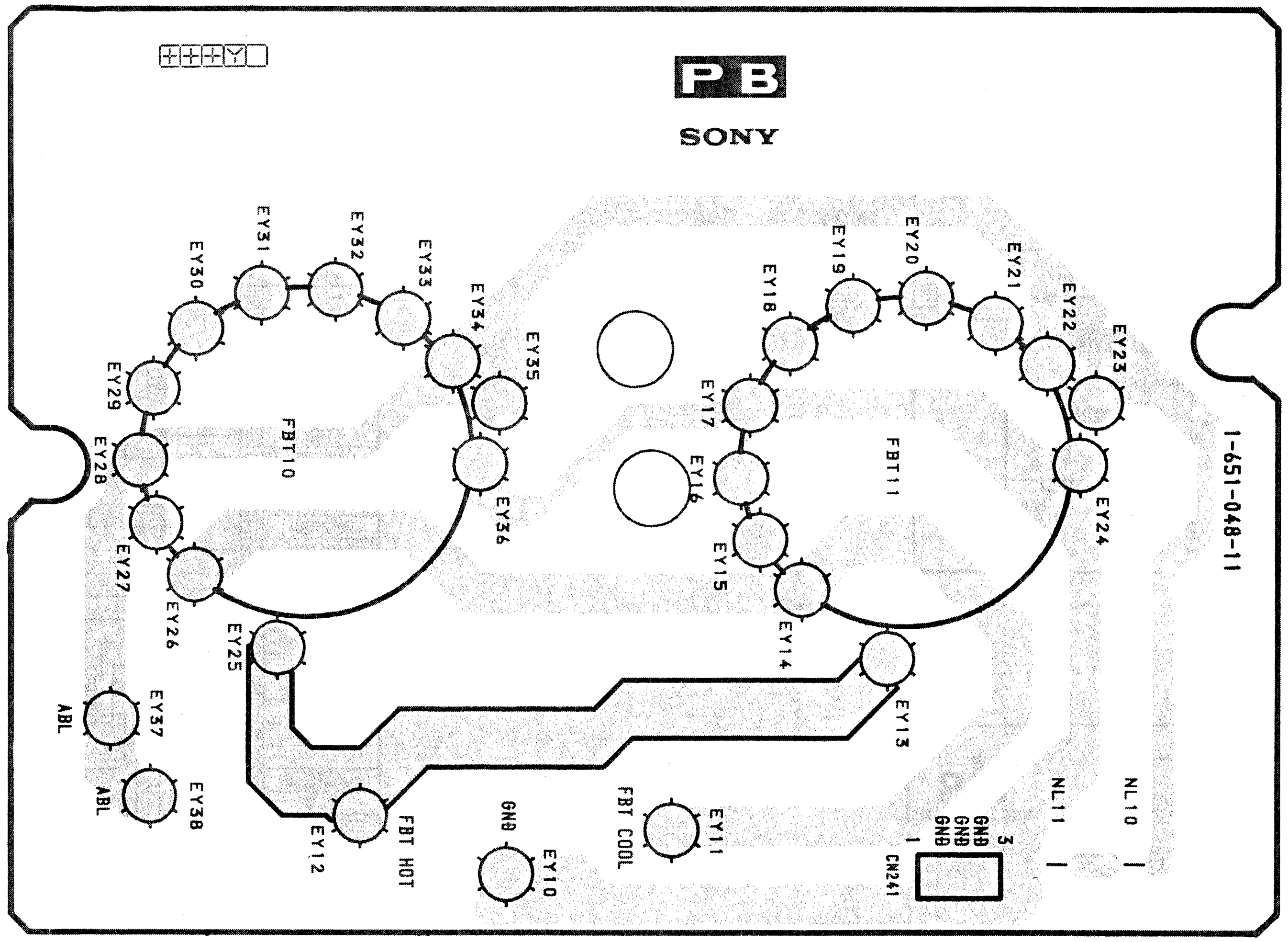
DIODE	
D1	E-6
D2	B-5
D3	A-13
D4	B-9
D5	C-9
D6	E-5
D7	D-3
D8	E-7
D9	B-9
D10	C-8
D11	D-7
D12	B-9
D13	C-8
D14	E-8
D15	D-6
D16	D-8
D17	E-12
D18	A-3
D19	E-12
D20	C-6
D21	C-6
D22	E-4
D23	D-9
D24	B-2
D25	B-2
D26	D-9
D27	D-4
D28	B-1
D29	B-1
D30	D-5
D31	C-8
D32	B-3
D33	C-10
D34	E-11
D35	B-8
D36	E-4

– PA BOARD –

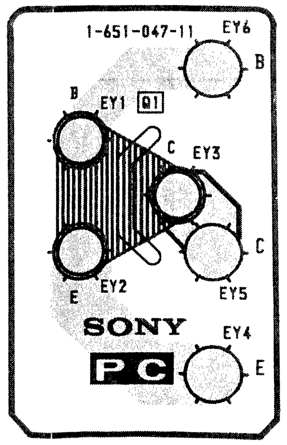

1
2
3
4
5
6
7
8
9
A
B
C
D
E
F
CN284
CN285
CN289
CN281
CN282
CN283
CN287
ABL
±1K PROT
HV PROT
POWER CONT
V STOP
H STOP
FAN PROT
GND
H SAW
GND
H PARA
GND
V PARA
+400V
NC
+15.5V
GND
-15.5V
V PARA
H PARA
H SAW
DET
NC
-15.5V
GND
+15.5V
GND
GND
NC
+100V
+100V
INT.OSC
GND
-15.5V
GND
GND
+15.5V
NC
+100V
+100V
NC
+400V
HV.REG
+12V
IC1
IC2
IC3
IC4
IC5
IC6
IC7
IC8
IC9
IC10
IC11
IC12
IC13
Q3
Q4
Q5
Q6
Q7
Q8
Q9
Q10
Q11
Q12
Q13
Q15
Q16
Q17
Q18
Q19
Q20
Q21
Q22
SONY
PA
GND
TP1
TP2
TP3
TP4
TP6
TP7
TP8
TP9
TP10
TP15
TP16
TP17
TP18
INT.OSC
REG OSC
HV DET
HV DRV
ABL
EY29
EY32
EY33
EY34
EY35
EY36
EY37
EY38
EY39
EY40
EY41
EY42
EY43
EY44
EY45
EY46
EY47
EY48
EY49
EY50
EY51
EY52
L3
L4
L5
L6
T1
X1
FB1
FB2
NL1

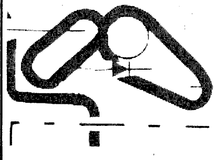

9
10
11
12
13
C13
C9
GND
HV.REG
H.CONV.1
H.CONV.0
GND
HV.PROT
CN287
R20
R21
R24
D9
R22
C10
C55
R126
D33
R125
C7
Q20
C53
R99
EY29
C37
EY28
EY32
EY31
EY30
C41
D26
EY33
T1
EY22
EY23
EY24
L1
EY25
EY26
EY27
L2
EY2
EY3
EY4
EY7
EY8
EY9
C54
EY1
EY5
GND
L8
FBT COOL
L7
ABL
NC
CN286
FBT HOT
D3
C4
R6
Q2
R7
TP14
IK2
R4
C3
R122
R5
R8
C2
C6
TP13
IK1
R3
Q1
C5
R1
R2
C1
R121
TP5
C.GND
R133
R134
R135
C43
R144
R46
R47
R45
R143
R44
CN290
R89
C42
EY6
EY13
EY11
EY10
CN288
GND
GND
GND
C49
R93
R91
R90
D34
D19
D17
C19
C20
C17
C18
FB3
EY14
EY12
1-651-042-11

- PB BOARD -

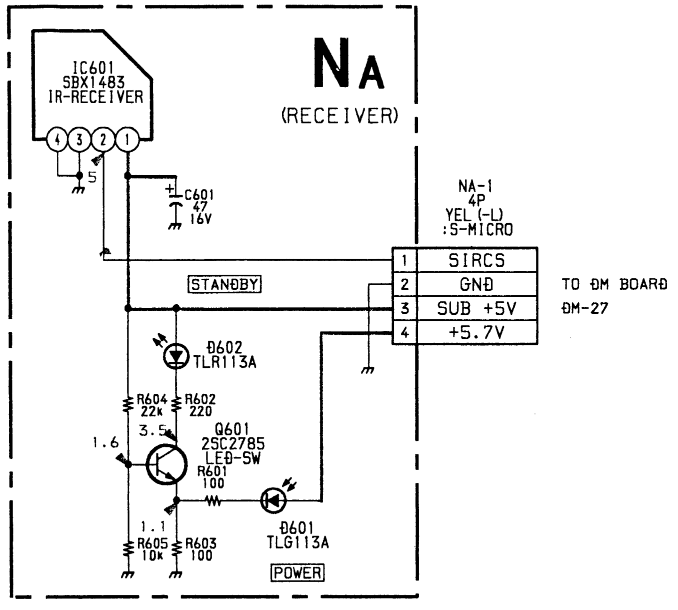

PB
SONY
EY30
EY31
EY32
EY33
EY34
EY35
EY29
EY28
EY27
EY26
EY25
EY36
FBT10
EY18
EY19
EY20
EY21
EY22
EY23
EY17
EY16
EY15
EY14
EY13
EY24
FBT11
1-651-048-11
ABL
EY37
ABL
EY38
EY12
FBT HOT
GND
EY10
FBT COOL
EY11
CN241
GND
GND
GND
NL11
NL10

- PC BOARD -

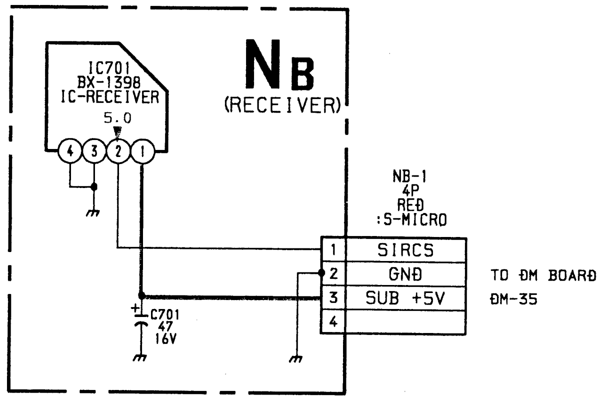

1-651-047-11
EY6
B
B
EY1
Q1
C
EY3
EY2
E
C
EY5
SONY
PC
EY4
E



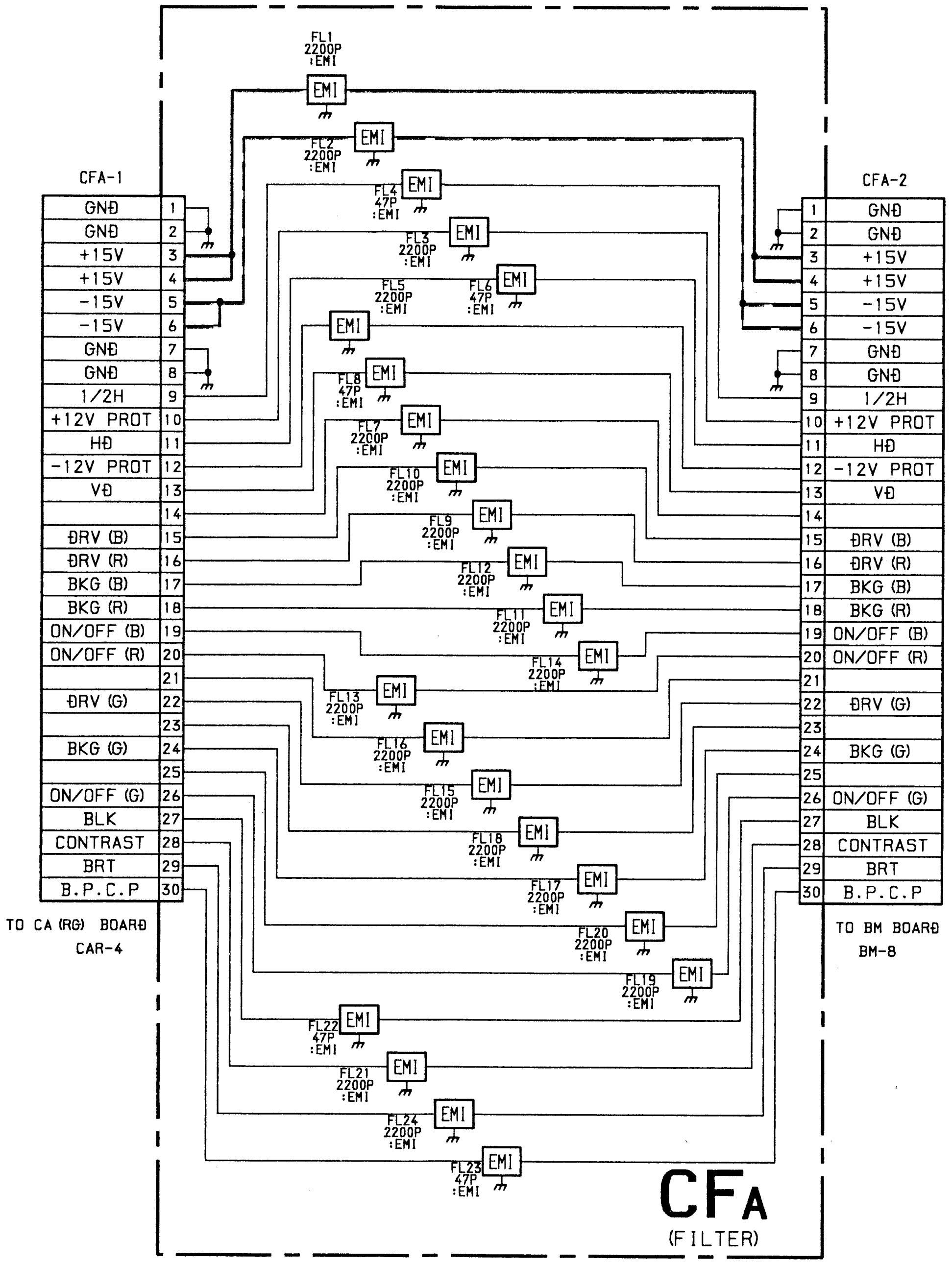
NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.


NA
(RECEIVER)
IC601
SBX1483
IR-RECEIVER
C601
47
16V
5
NA-1
4P
YEL (-L)
:S-MICRO
1 SIRCS
2 GND
3 SUB +5V
4 +5.7V
TO DM BOARD
DM-27
STANDBY
D602
TLR113A
R604 22k
R602 220
Q601
2SC2785
LED-SW
1.6
3.5
R601 100
D601
TLG113A
1.1
R605 10k
R603 100
POWER

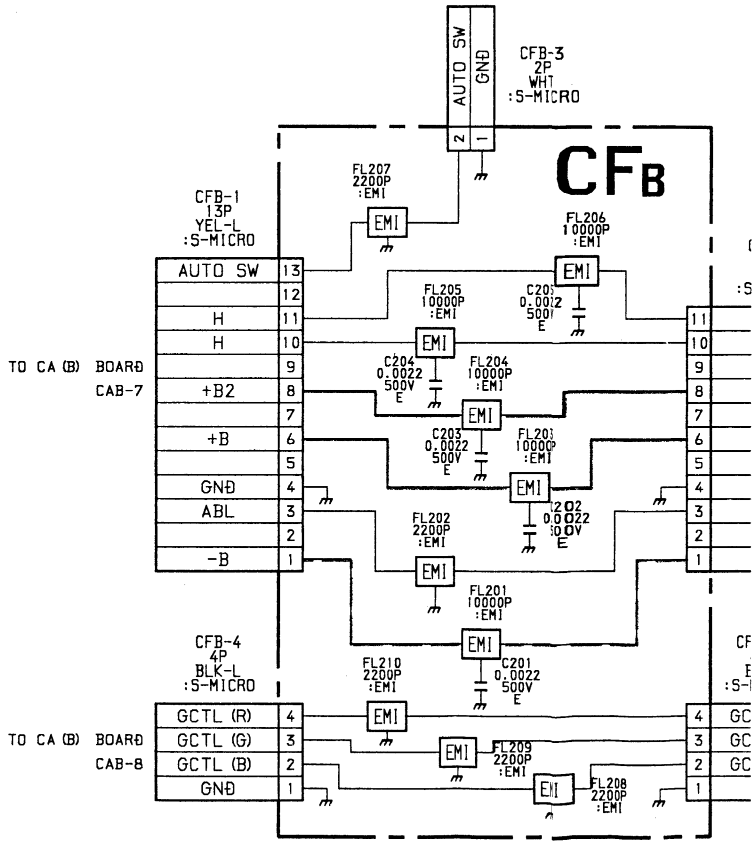
B-SS1550<U/C>-NA.


NB
(RECEIVER)
IC701
BX-1398
IC-RECEIVER
5.0
NB-1
4P
RED
:S-MICRO
1 SIRCS
2 GND
3 SUB +5V
4
TO DM BOARD
DM-35
C701
47
16V

B-SS1550<U/C>-NB.

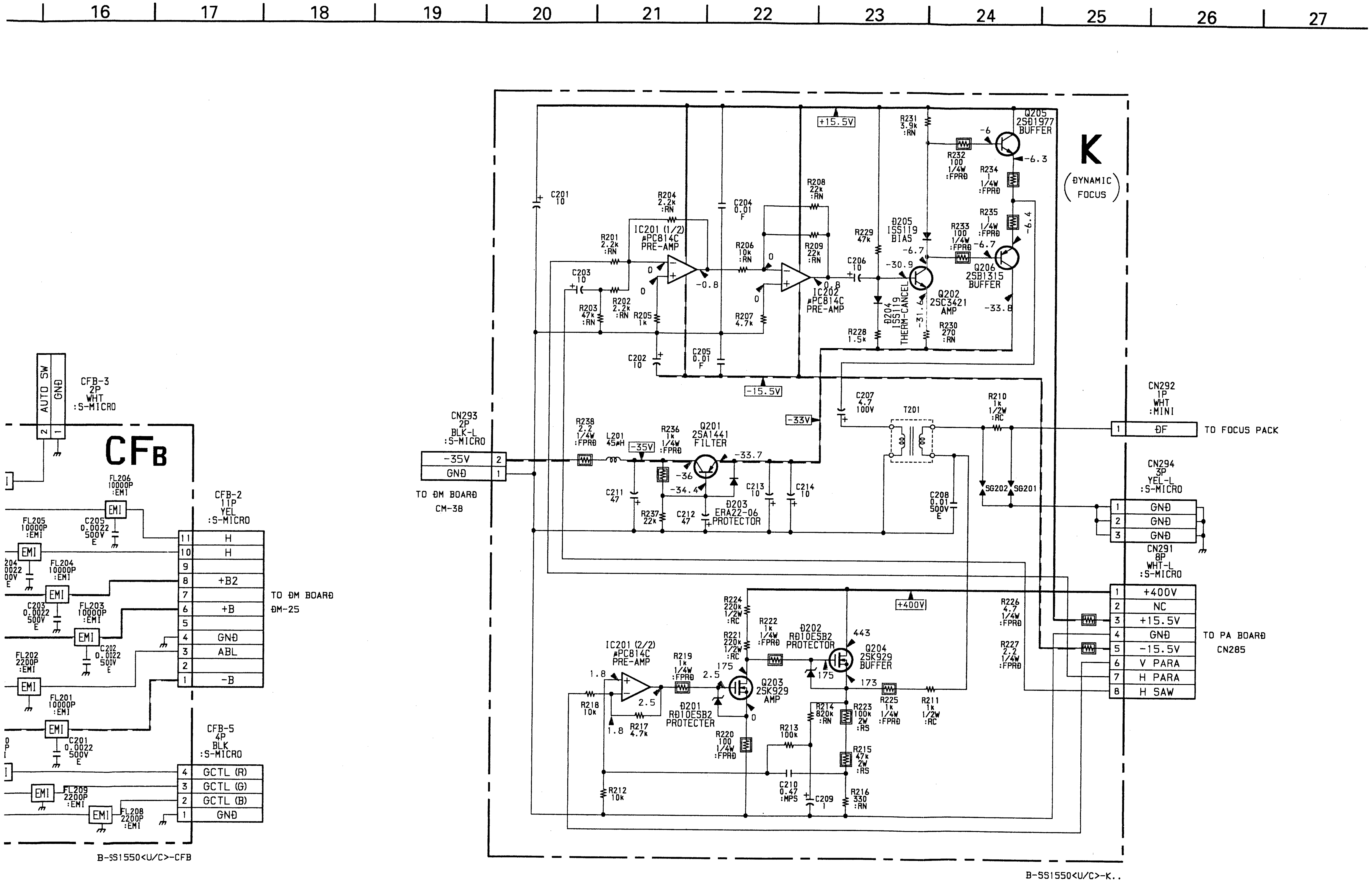

CFA
(FILTER)
CFA-1
1 GND
2 GND
3 +15V
4 +15V
5 -15V
6 -15V
7 GND
8 GND
9 1/2H
10 +12V PROT
11 HD
12 -12V PROT
13 VD
14
15 DRV (B)
16 DRV (R)
17 BKG (B)
18 BKG (R)
19 ON/OFF (B)
20 ON/OFF (R)
21
22 DRV (G)
23
24 BKG (G)
25
26 ON/OFF (G)
27 BLK
28 CONTRAST
29 BRT
30 B.P.C.P
TO CA (RG) BOARD
CAR-4
CFA-2
TO BM BOARD
BM-8
EMI
FL1 2200P :EMI
FL2 2200P :EMI
FL3 2200P :EMI
FL4 47P :EMI
FL5 2200P :EMI
FL6 47P :EMI
FL7 2200P :EMI
FL8 47P :EMI
FL9 2200P :EMI
FL10 2200P :EMI
FL11 2200P :EMI
FL12 2200P :EMI
FL13 2200P :EMI
FL14 2200P :EMI
FL15 2200P :EMI
FL16 2200P :EMI
FL17 2200P :EMI
FL18 2200P :EMI
FL19 2200P :EMI
FL20 2200P :EMI
FL21 2200P :EMI
FL22 47P :EMI
FL23 47P :EMI
FL24 2200P :EMI

B-SS1550<U/C>-CFA

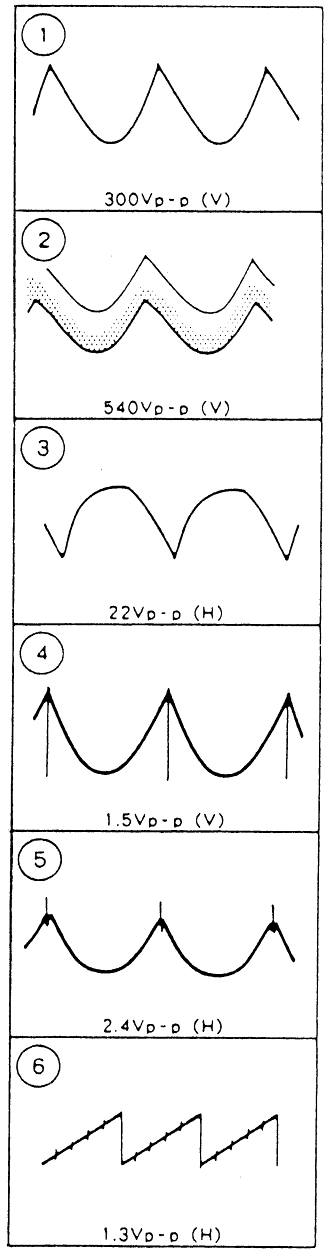

CFB
CFB-3
2P
WHT
:S-MICRO
AUTO SW
GND
CFB-1
13P
YEL-L
:S-MICRO
13 AUTO SW
12
11 H
10 H
9
8 +B2
7
6 +B
5
4 GND
3 ABL
2
1 -B
TO CA (B) BOARD
CAB-7
FL207 2200P :EMI
FL206 10000P :EMI
FL205 10000P :EMI
C205 0.0022 500V E
C204 0.0022 500V E
FL204 10000P :EMI
C203 0.0022 500V E
FL203 10000P :EMI
C202 0.0022 500V E
FL202 2200P :EMI
FL201 10000P :EMI
C201 0.0022 500V E
CFB-4
4P
BLK-L
:S-MICRO
4 GCTL (R)
3 GCTL (G)
2 GCTL (B)
1 GND
TO CA (B) BOARD
CAB-8
FL210 2200P :EMI
FL209 2200P :EMI
FL208 2200P :EMI
EMI

B-SS1550<U/C>-CFB

Schematic diagrams

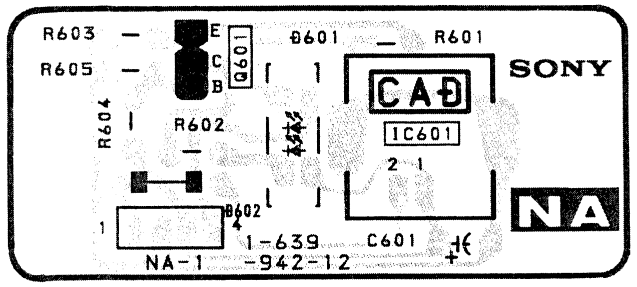

16
17
18
19
20
21
22
23
24
25
26
27
CFB
CFB-3 2P WHT :S-MICRO
AUTO SW
GND
FL206 10000P :EMI
FL205 10000P :EMI
C205 0.0022 500V E
FL204 10000P :EMI
FL203 10000P :EMI
C203 0.0022 500V E
FL202 2200P :EMI
C202 0.0022 500V E
FL201 10000P :EMI
C201 0.0022 500V E
FL209 2200P :EMI
FL208 2200P :EMI
EMI
CFB-2 11P YEL :S-MICRO
H
H
+B2
+B
GND
ABL
-B
TO ĐM BOARĐ ĐM-25
CFB-5 4P BLK :S-MICRO
GCTL (R)
GCTL (G)
GCTL (B)
GND
B-SS1550<U/C>-CFB
K
(ĐYNAMIC FOCUS)
CN293 2P BLK-L :S-MICRO
-35V
GND
TO ĐM BOARĐ CM-38
+15.5V
-15.5V
-33V
-35V
+400V
C201 10
R204 2.2k :RN
IC201 (1/2) μPC814C PRE-AMP
R201 2.2k :RN
C203 10
R202 2.2k :RN
R203 47k :RN
R205 1k
C202 10
C204 0.01 F
C205 0.01 F
R206 10k :RN
R207 4.7k
R208 22k :RN
R209 22k :RN
IC202 μPC814C PRE-AMP
R229 47k
C206 10
Đ205 1SS119 BIAS
Đ204 1SS119 THERM-CANCEL
R228 1.5k
Q202 2SC3421 AMP
R230 270 :RN
R231 3.9k :RN
R232 100 1/4W :FPRĐ
Q205 2SB1977 BUFFER
R234 1 1/4W :FPRĐ
R235 1
R233 100 1/4W :FPRĐ
Q206 2SB1315 BUFFER
-6
-6.3
-6.4
-6.7
-30.9
-31.6
-33.8
-0.8
0.8
0
C207 4.7 100V
T201
R210 1k 1/2W :RC
SG202
SG201
C208 0.01 500V E
R238 2.2 1/4W :FPRĐ
L201 45μH
R236 1k 1/4W :FPRĐ
Q201 2SA1441 FILTER
-33.7
-36
-34.4
C211 47
R237 22k
C212 47
Đ203 ERA22-06 PROTECTOR
C213 10
C214 10
CN292 1P WHT :MINI
ĐF
TO FOCUS PACK
CN294 3P YEL-L :S-MICRO
GND
GND
GND
CN291 8P WHT-L :S-MICRO
+400V
NC
+15.5V
GND
-15.5V
V PARA
H PARA
H SAW
TO PA BOARĐ CN285
R226 4.7 1/4W :FPRĐ
R227 2.2 1/4W :FPRĐ
R224 220k 1/2W :RC
R221 220k 1/2W :RC
R222 1k 1/4W :FPRĐ
Đ202 RD10ESB2 PROTECTOR
443
Q204 2SK929 BUFFER
175
173
IC201 (2/2) μPC814C PRE-AMP
1.8
2.5
R219 1k 1/4W :FPRĐ
Q203 2SK929 AMP
Đ201 RD10ESB2 PROTECTER
R218 10k
R217 4.7k
R220 100 1/4W :FPRĐ
R214 820k :RN
R223 100k 2W :RS
R225 1k 1/4W :FPRĐ
R211 1k 1/2W :RC
R213 100k
R215 47k 2W :RS
C210 0.47 :MPS
C209 1
R216 330 :RN
R212 10k
B-SS1550<U/C>-K..

K BOARD

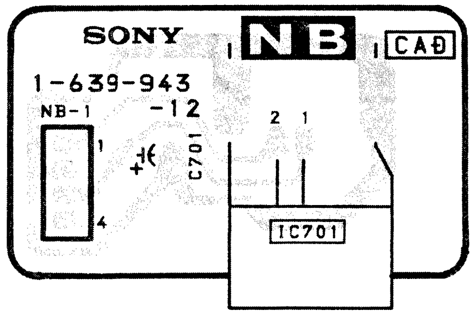

①
300Vp-p (V)
②
540Vp-p (V)
③
22Vp-p (H)
④
1.5Vp-p (V)
⑤
2.4Vp-p (H)
⑥
1.3Vp-p (H)

NA NB [RECEIVER]

– NA BOARD –

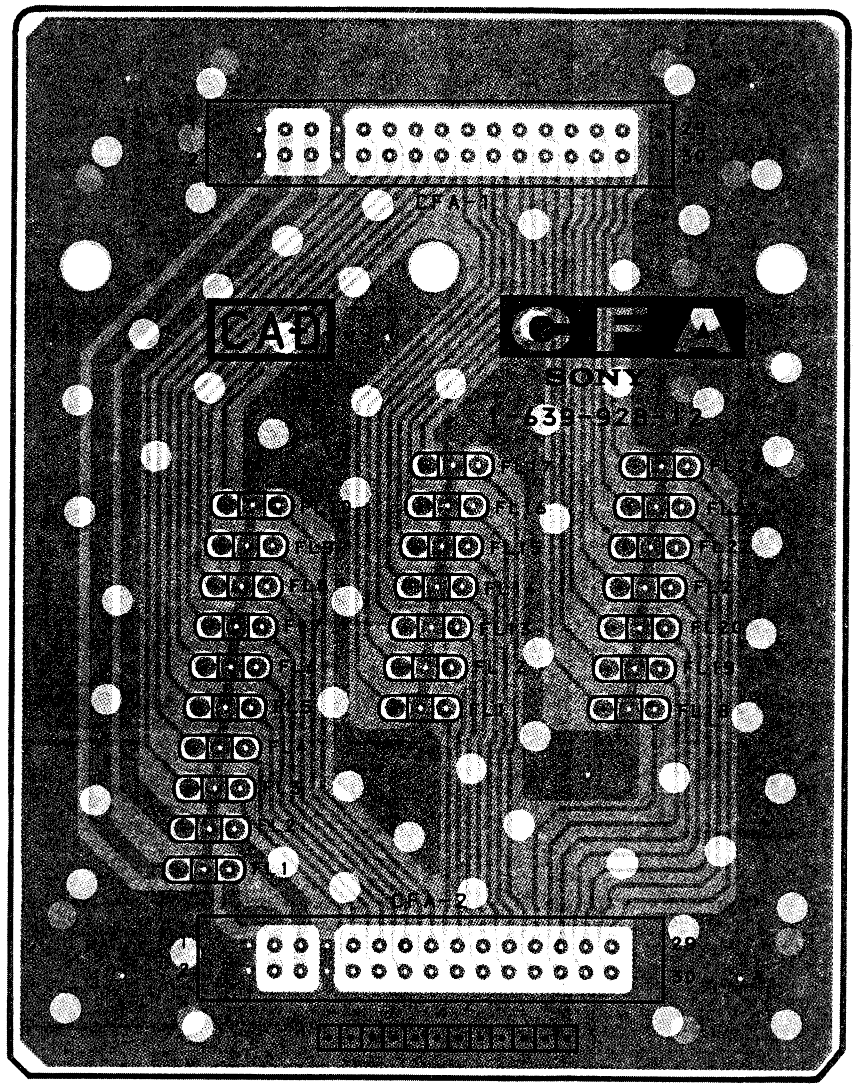

R603
R605
R604
R602
E
C
B
Q601
D601
R601
CAD
IC601
2 1
SONY
NA
1
4
D602
NA-1
1-639
-942-12
C601

– NB BOARD –

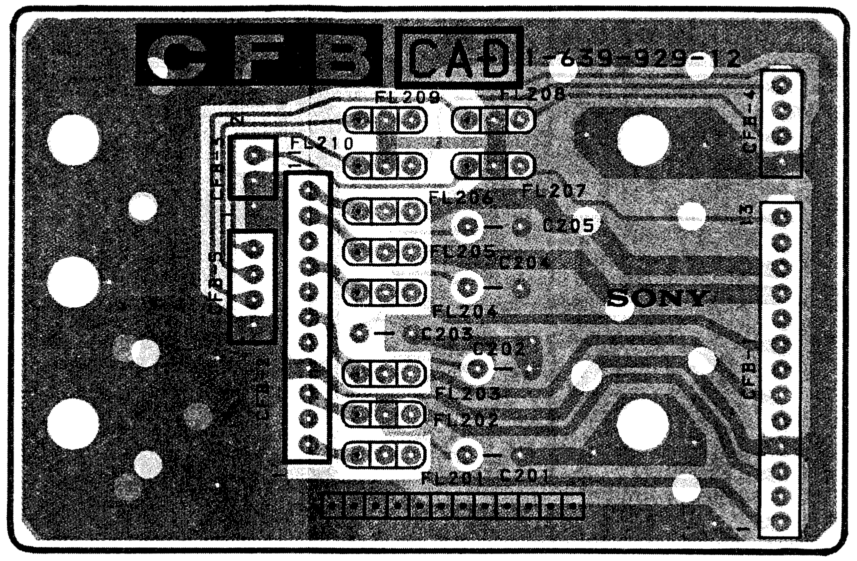

SONY
NB
CAD
1-639-943
-12
NB-1
1
4
C701
2 1
IC701

CFA CFB [FILTER]

– CFA BOARD –


CFA-1
CAD
CFA
SONY
1-639-928-12
CFA-2
FL1

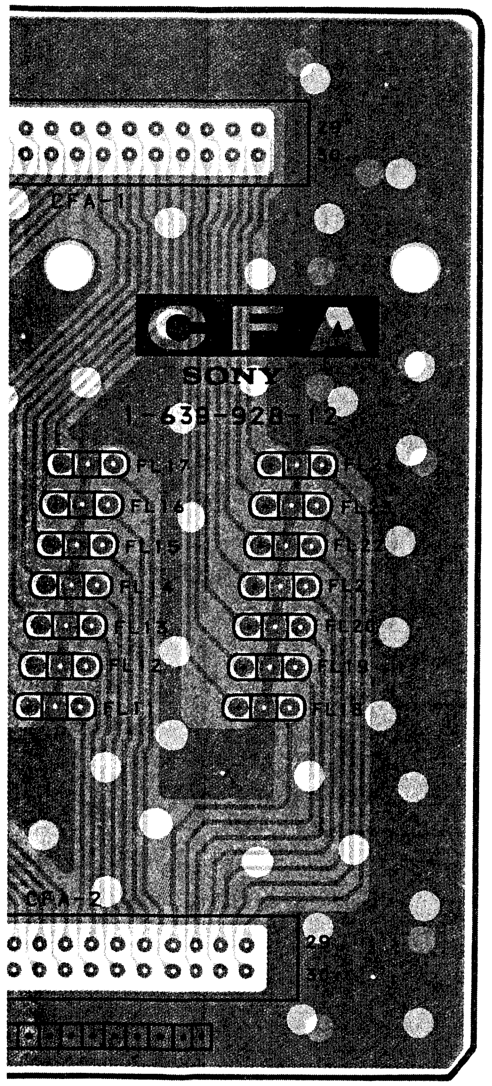
– CFB BOARD –


CFB
CAD
1-639-929-12
FL209
FL208
FL210
FL207
FL206
C205
FL205
C204
FL204
C203
C202
FL203
FL202
FL201
C201
SONY

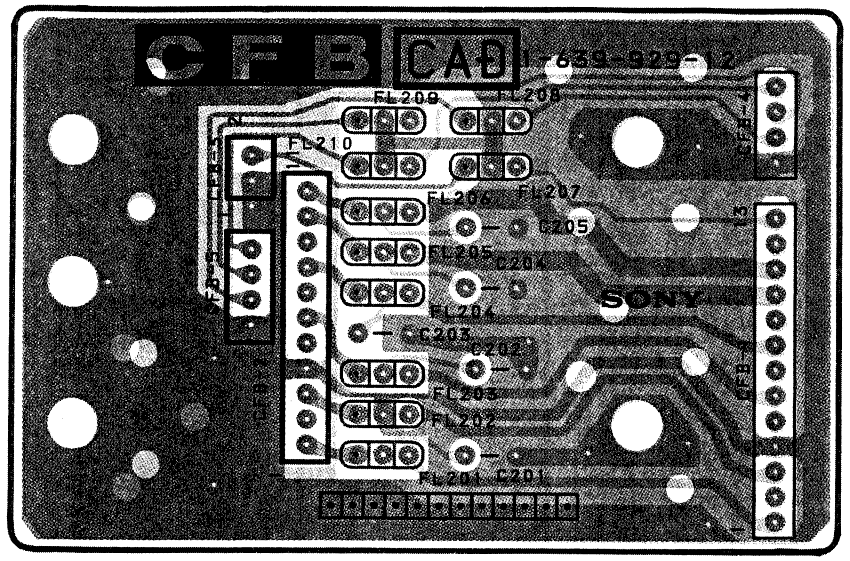
–

- ░ : Pattern from the side which enables seeing.
- ▓ : Pattern of the rear side.

CFA CFB [FILTER]


CFA
SONY
1-639-928-12
CFA-1
CFA-2
FL117
FL116
FL115
FL114
FL113
FL112
FL111

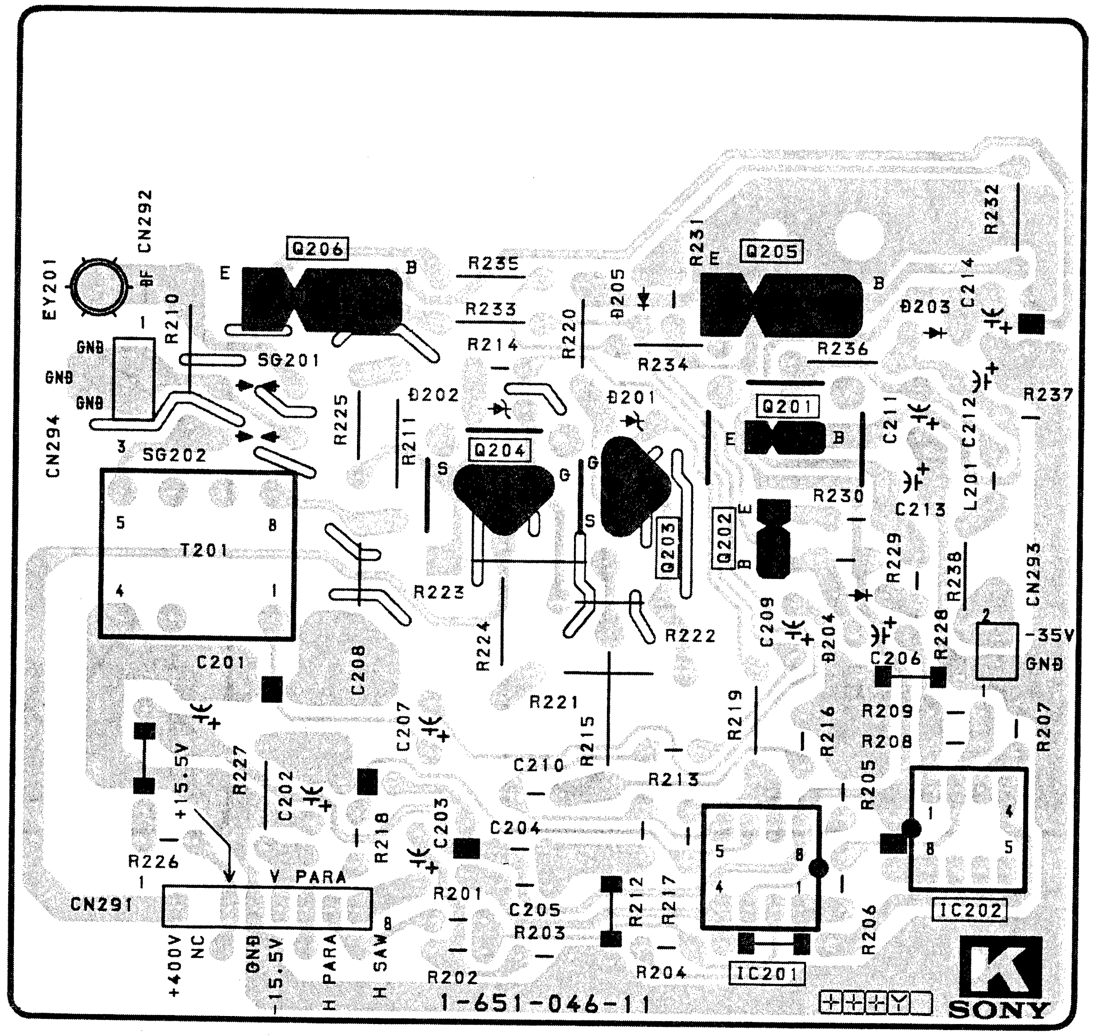
– CFB BOARD –


CFB
CAD
1-639-929-12
FL208
FL209
FL210
FL207
FL206
FL205
FL204
FL203
FL202
FL201
C205
C204
C203
C202
C201
SONY

- ░ : Pattern from the side which enables seeing.
- ▒ : Pattern of the rear side.

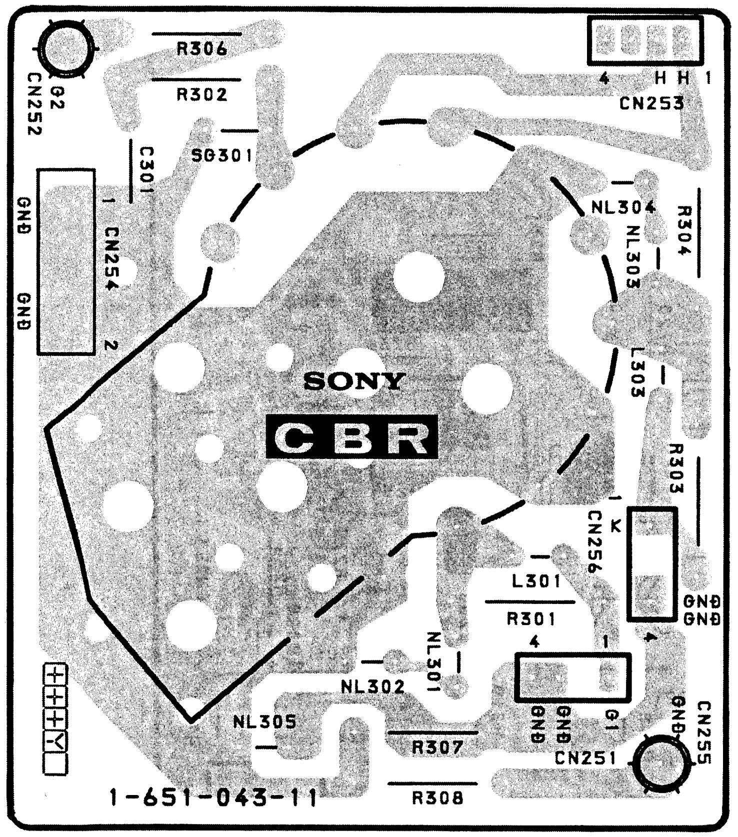
K [DYNAMIC FOCUS]

– K BOARD –

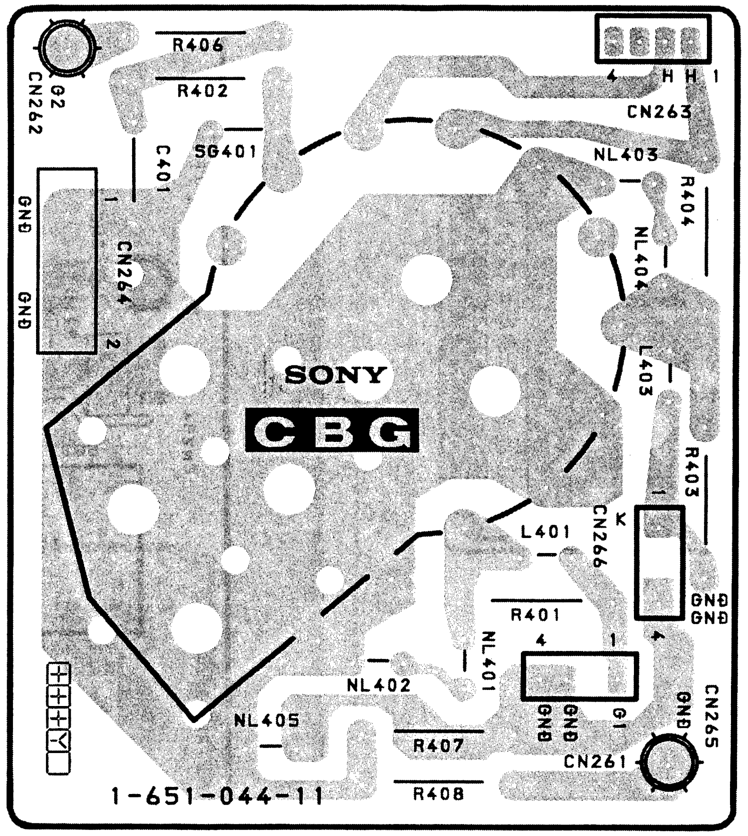

EY201
CN292
CN294
GND
Q206
E
B
R235
R233
R214
R220
D205
R231
Q205
R232
D203
C214
R210
SG201
SG202
R225
D202
R211
Q204
D201
R234
R236
Q201
R237
C211
C212
L201
C213
R230
Q203
Q202
T201
R223
R224
R222
C209
D204
R229
R228
C206
CN293
-35V
GND
C201
C208
C207
R221
R219
R216
R209
R208
R207
+15.5V
R227
C202
R218
C203
C210
R215
R213
C204
R205
R226
CN291
V PARA
R201
C205
R203
R212
R217
R206
IC202
IC201
R202
R204
+400V
NC
GND
-15.5V
H PARA
H SAW
1-651-046-11
K
SONY

CBR **CBG** **CBB** [CRT SOCKET]

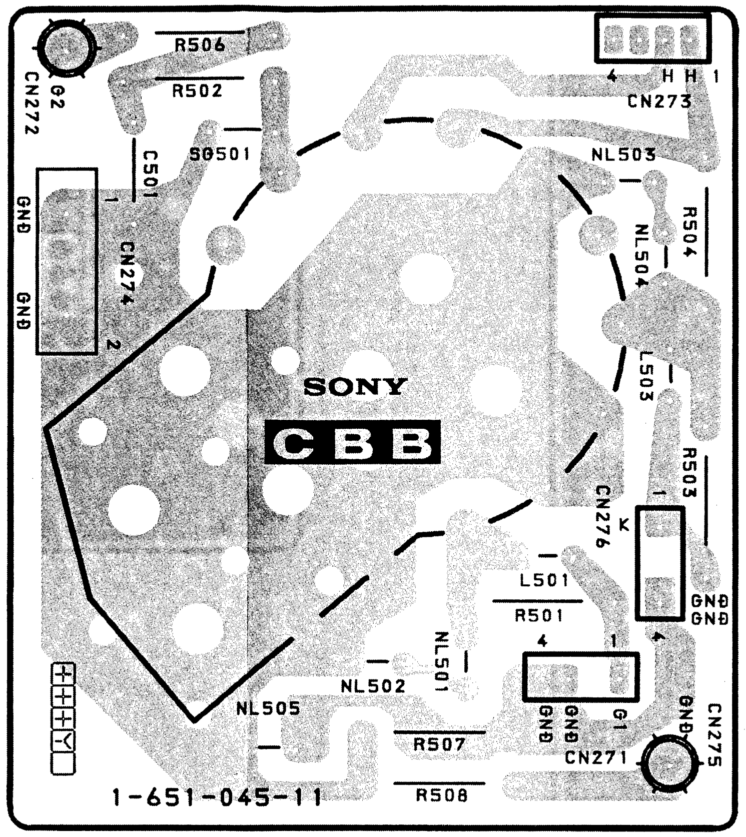
– CBR BOARD –


R306
R302
Q2
CN252
C301
SG301
4 H H 1
CN253
GND
1
CN254
GND
2
NL304
NL303
R304
L303
SONY
CBR
R303
1
K
CN256
L301
R301
NL301
4
1
GND
GND
NL302
NL305
R307
GND
GND
G1
CN251
GND
CN255
R308
1-651-043-11

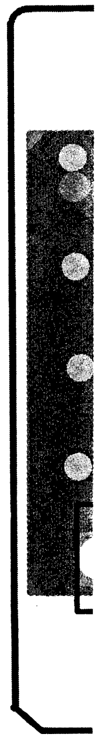
– CBG BOARD –


R406
R402
Q2
CN262
C401
SG401
4 H H 1
CN263
NL403
R404
GND
1
CN264
GND
2
NL404
L403
SONY
CBG
R403
L401
K
CN266
R401
NL401
4
1
GND
GND
NL402
NL405
R407
GND
GND
G1
CN261
GND
CN265
R408
1-651-044-11

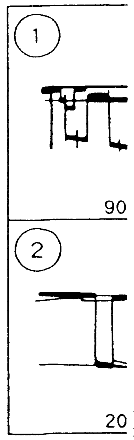
– CBB BOARD –


R506
R502
Q2
CN272
C501
SG501
4 H H 1
CN273
NL503
R504
GND
1
CN274
GND
2
NL504
L503
SONY
CBB
R503
1
K
CN276
L501
R501
NL501
4
1
GND
GND
NL502
NL505
R507
GND
GND
G1
CN271
GND
CN275
R508
1-651-045-11

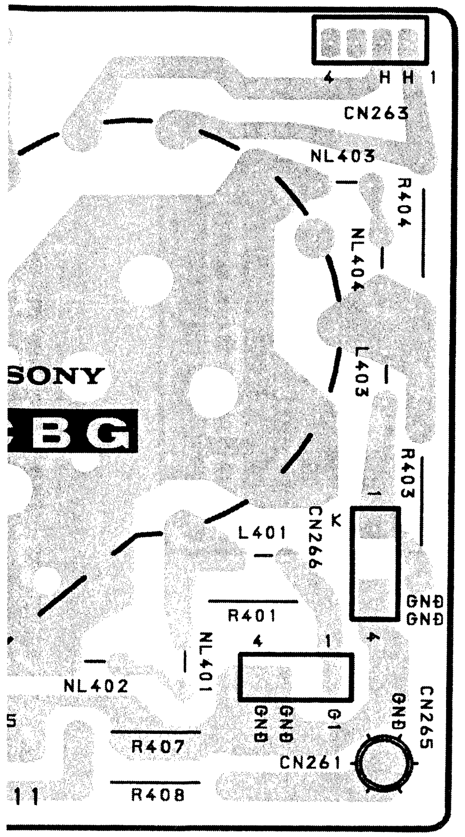
– QM E



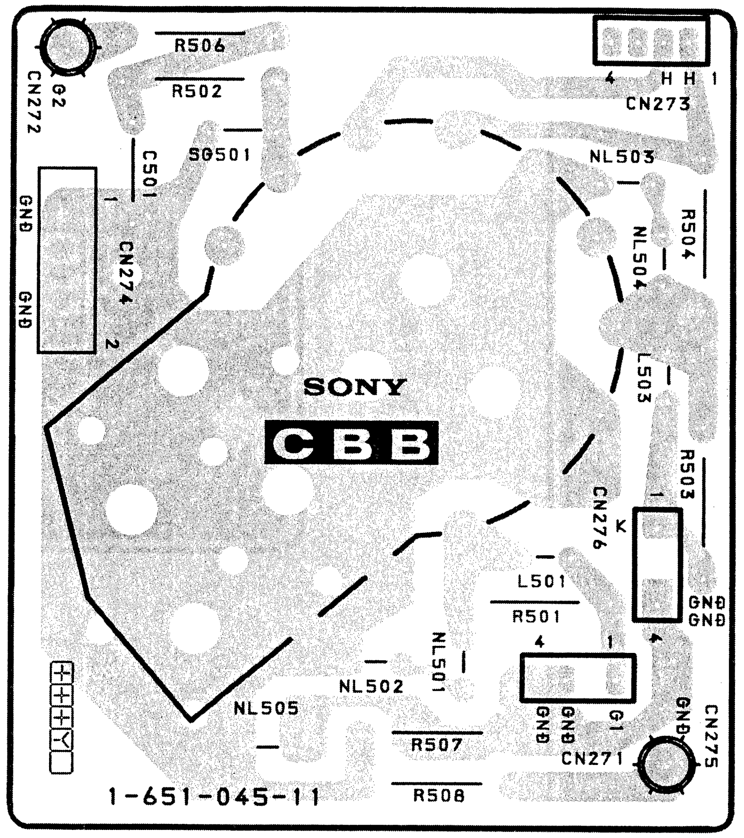
CBR BOAI



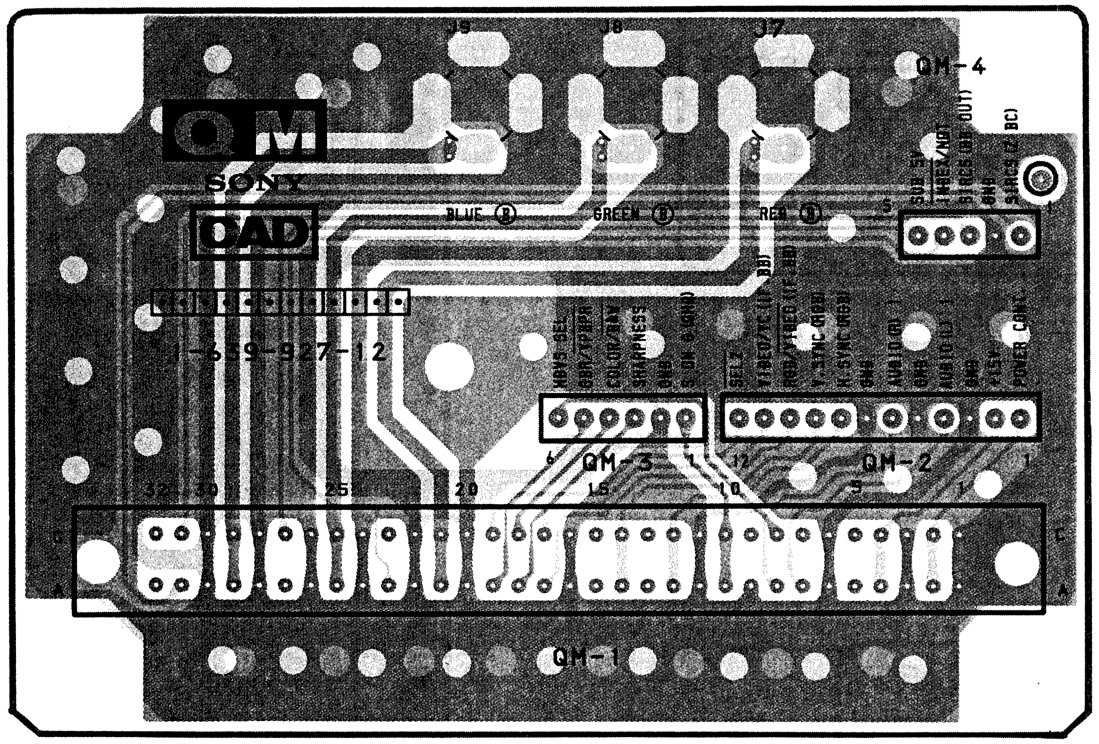
QM [MOTHER BOARD]


4 H H 1
CN263
NL403
R404
NL404
L403
SONY
BG
R403
CN266
K
L401
R401
NL401
GND
GND
4
1
NL402
R407
R408
GND
GND
G1
GND
CN265
CN261

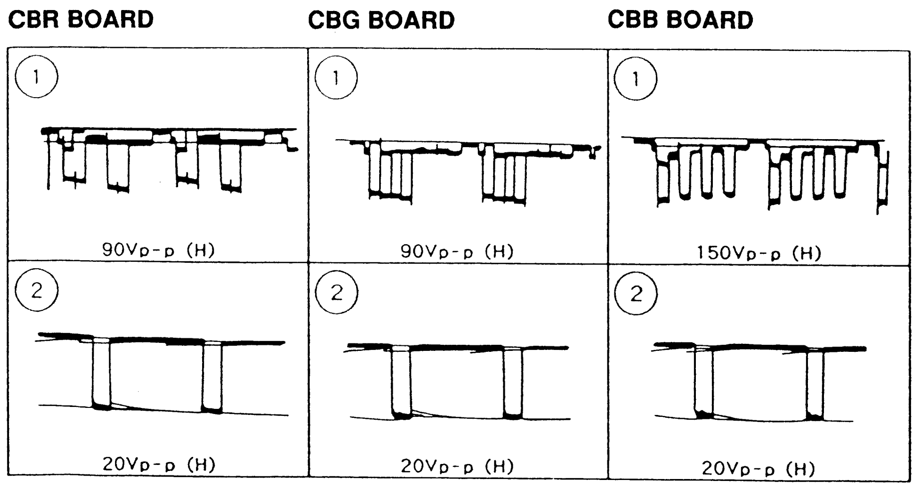
– CBB BOARD –

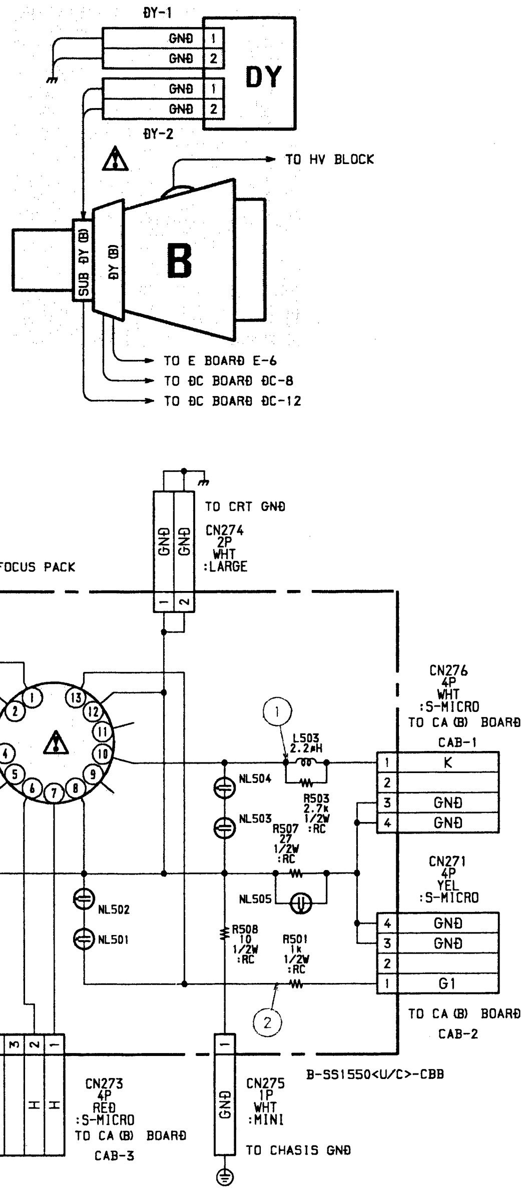

CN272
G2
R506
R502
C501
SG501
4 H H 1
CN273
NL503
R504
NL504
GND
GND
1
CN274
2
SONY
CBB
L503
R503
CN276
K
L501
R501
GND
GND
4
1
NL501
NL502
NL505
R507
R508
GND
GND
G1
GND
CN275
CN271
1-651-045-11

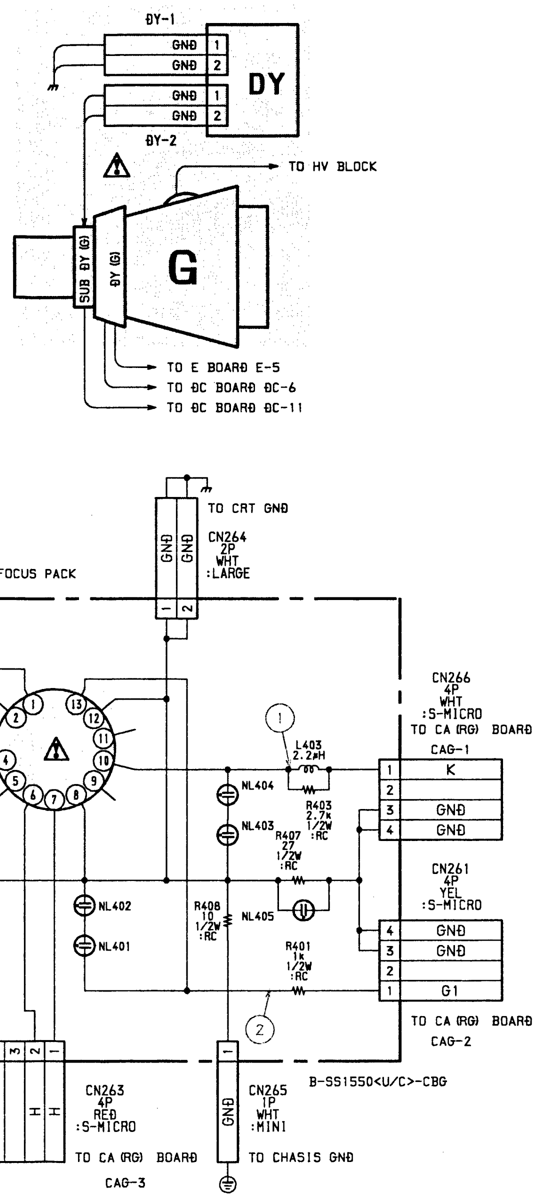
– QM BOARD –

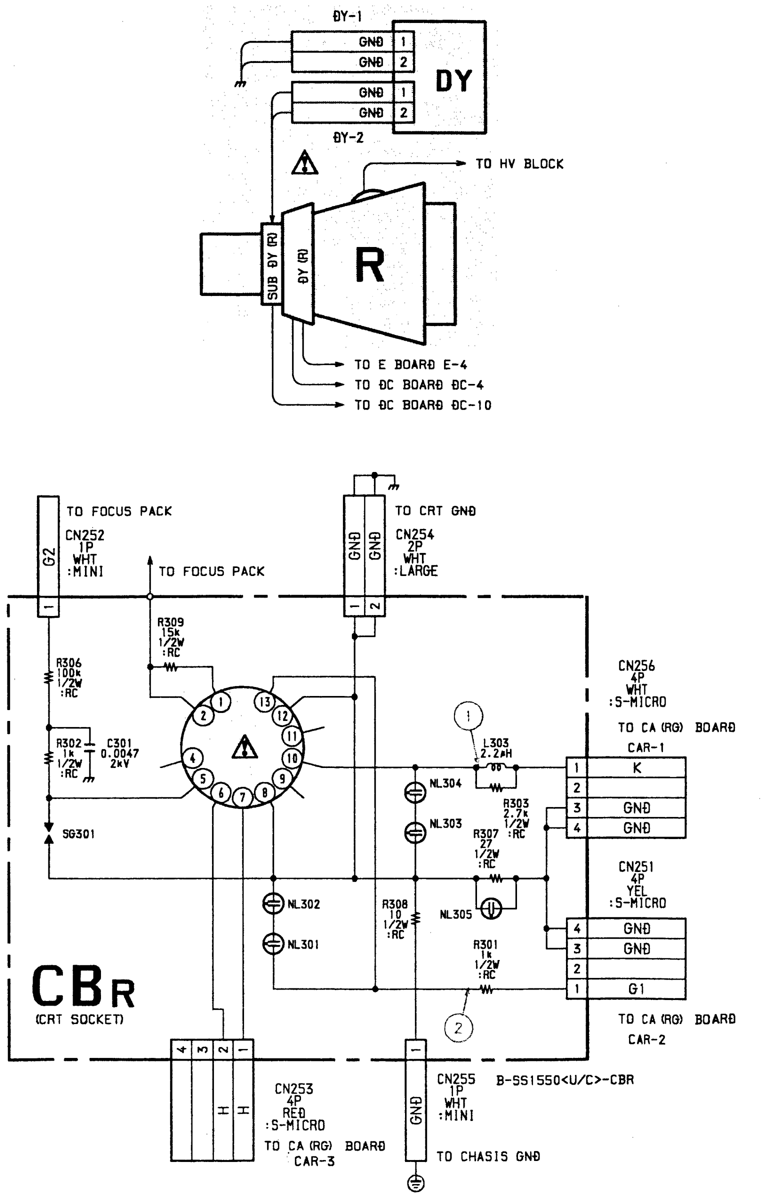

J9
J8
J7
QM-4
QM
SONY
CAD
BLUE
GREEN
RED
1-659-927-12
QM-3
QM-2
QM-1
32
30
25
20
15
10
5
1

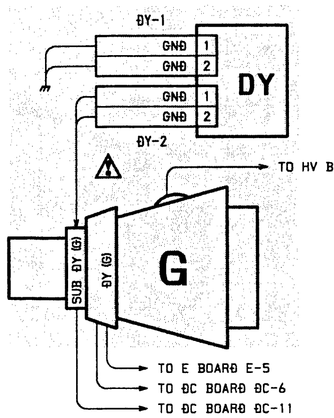
- ░ : Pattern from the side which enables seeing.
- ▒ : Pattern of the rear side.

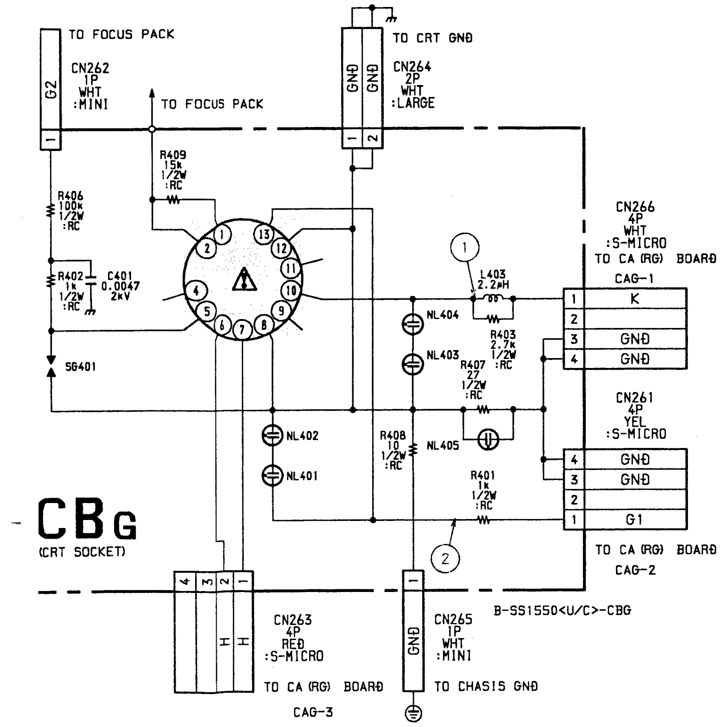


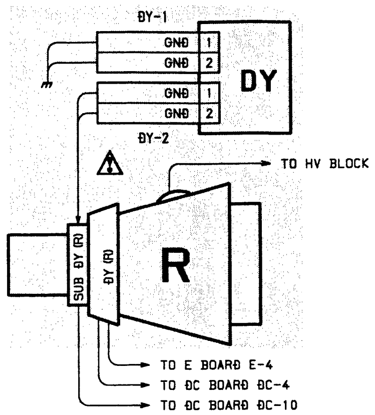

DY-1
GND 1
GND 2
DY
GND 1
GND 2
DY-2
TO HV BLOCK
SUB DY (B)
DY (B)
B
TO E BOARD E-6
TO DC BOARD DC-8
TO DC BOARD DC-12
TO FOCUS PACK
G2
CN272
1P
WHT
:MINI
TO FOCUS PACK
GND
GND
TO CRT GND
CN274
2P
WHT
:LARGE
R509
15k
1/2W
:RC
R506
100k
1/2W
:RC
R502
1k
1/2W
:RC
C501
0.0047
2kV
SG501
CN276
4P
WHT
:S-MICRO
TO CA (B) BOARD
CAB-1
L503
2.2µH
NL504
NL503
R503
2.7k
1/2W
:RC
R507
27
1/2W
:RC
K
GND
GND
CN271
4P
YEL
:S-MICRO
NL505
NL502
NL501
R508
10
1/2W
:RC
R501
1k
1/2W
:RC
GND
GND
G1
TO CA (B) BOARD
CAB-2
CBB
(CRT SOCKET)
H
H
CN273
4P
RED
:S-MICRO
TO CA (B) BOARD
CAB-3
GND
CN275
1P
WHT
:MINI
TO CHASIS GND
B-SS1550<U/C>-CBB

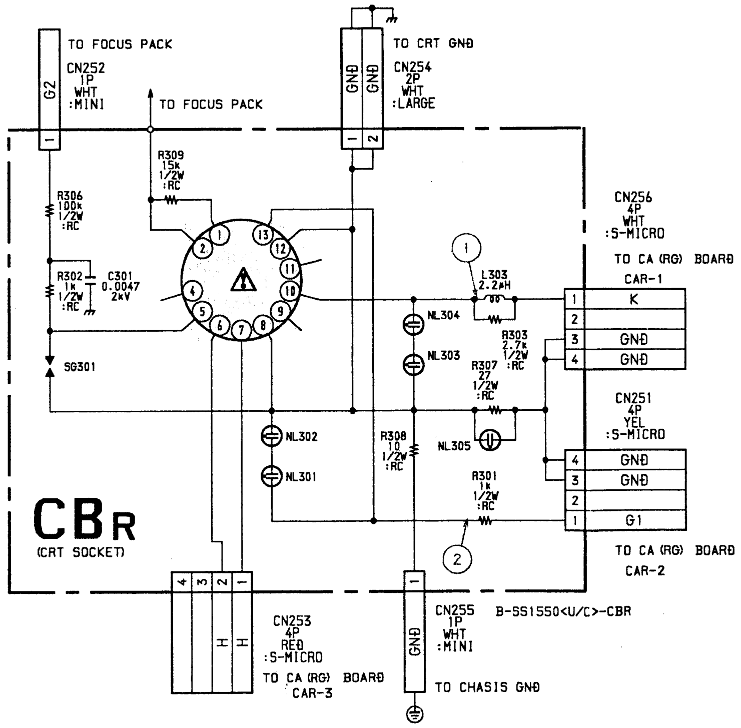

DY-1
GND 1
GND 2
DY
GND 1
GND 2
DY-2
TO HV BLOCK
SUB DY (G)
DY (G)
G
TO E BOARD E-5
TO DC BOARD DC-6
TO DC BOARD DC-11
TO FOCUS PACK
G2
CN262
1P
WHT
:MINI
TO FOCUS PACK
GND
GND
TO CRT GND
CN264
2P
WHT
:LARGE
R409
15k
1/2W
:RC
R406
100k
1/2W
:RC
R402
1k
1/2W
:RC
C401
0.0047
2kV
SG401
CN266
4P
WHT
:S-MICRO
TO CA (RG) BOARD
CAG-1
L403
2.2µH
NL404
NL403
R403
2.7k
1/2W
:RC
R407
27
1/2W
:RC
K
GND
GND
CN261
4P
YEL
:S-MICRO
NL402
NL401
R408
10
1/2W
:RC
NL405
R401
1k
1/2W
:RC
GND
GND
G1
TO CA (RG) BOARD
CAG-2
CBG
(CRT SOCKET)
H
H
CN263
4P
RED
:S-MICRO
TO CA (RG) BOARD
CAG-3
GND
CN265
1P
WHT
:MINI
TO CHASIS GND
B-SS1550<U/C>-CBG

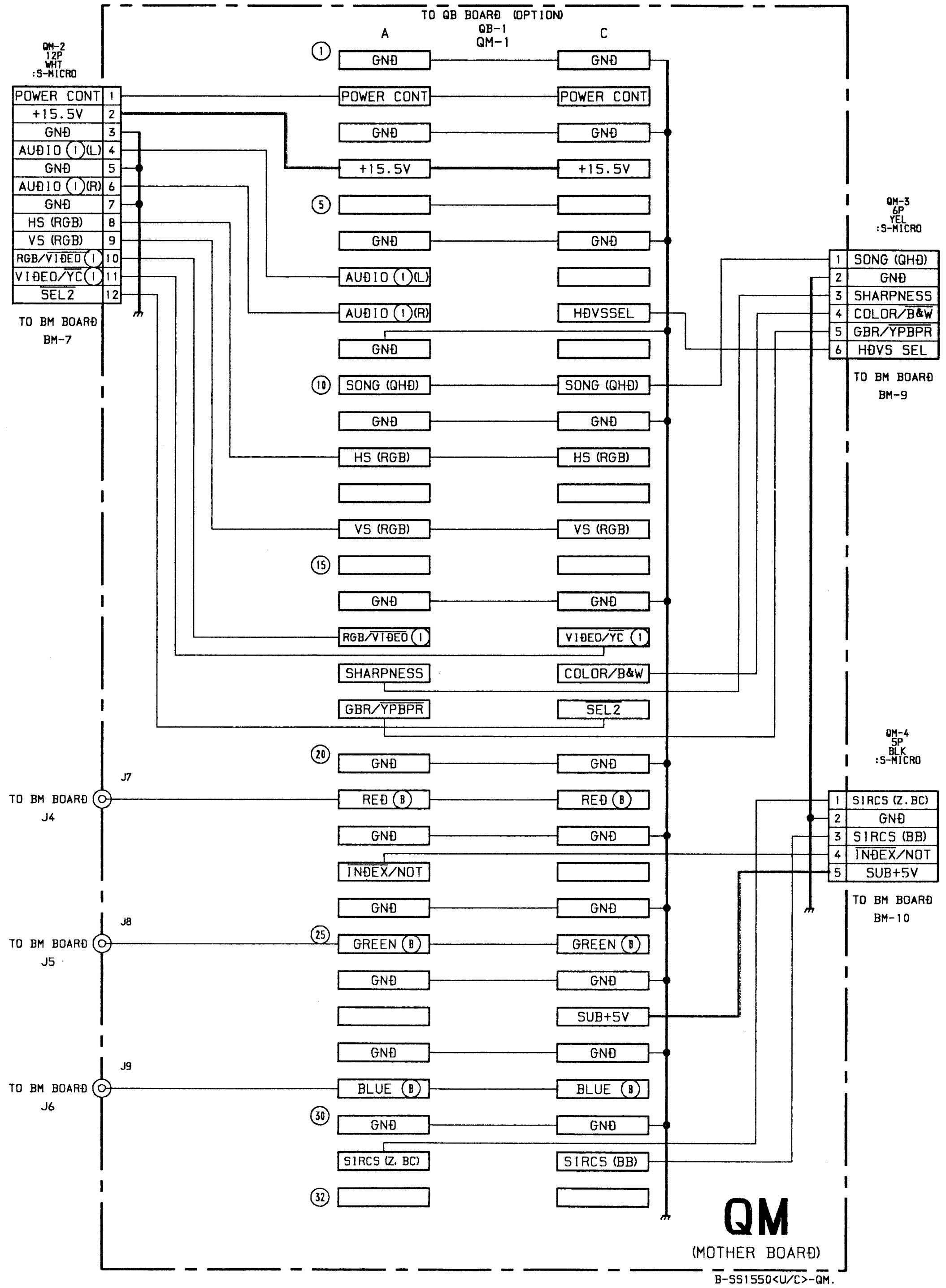

DY-1
GND 1
GND 2
DY
GND 1
GND 2
DY-2
TO HV BLOCK
SUB DY (R)
DY (R)
R
TO E BOARD E-4
TO DC BOARD DC-4
TO DC BOARD DC-10
TO FOCUS PACK
G2
CN252
1P
WHT
:MINI
TO FOCUS PACK
GND
GND
TO CRT GND
CN254
2P
WHT
:LARGE
R309
15k
1/2W
:RC
R306
100k
1/2W
:RC
R302
1k
1/2W
:RC
C301
0.0047
2kV
SG301
CN256
4P
WHT
:S-MICRO
TO CA (RG) BOARD
CAR-1
L303
2.2µH
NL304
NL303
R303
2.7k
1/2W
:RC
R307
27
1/2W
:RC
K
GND
GND
CN251
4P
YEL
:S-MICRO
NL302
NL301
R308
10
1/2W
:RC
NL305
R301
1k
1/2W
:RC
GND
GND
G1
TO CA (RG) BOARD
CAR-2
CBR
(CRT SOCKET)
H
H
CN253
4P
RED
:S-MICRO
TO CA (RG) BOARD
CAR-3
GND
CN255
1P
WHT
:MINI
TO CHASIS GND
B-SS1550<U/C>-CBR


DY-1
GND 1
GND 2
DY
GND 1
GND 2
DY-2
⚠
TO HV BLOCK
SUB DY (B)
DY (G)
G
TO E BOARD E-5
TO DC BOARD DC-6
TO DC BOARD DC-11


TO FOCUS PACK
G2
CN262 1P WHT :MINI
TO FOCUS PACK
TO CRT GND
GND GND
CN264 2P WHT :LARGE
R409 15k 1/2W :RC
R406 100k 1/2W :RC
R402 1k 1/2W :RC
C401 0.0047 2kV
SG401
⚠
①
L403 2.2μH
NL404
NL403
R403 2.7k 1/2W :RC
R407 27 1/2W :RC
CN266 4P WHT :S-MICRO
TO CA (RG) BOARD CAG-1
K
GND
GND
CN261 4P YEL :S-MICRO
NL402
NL401
R408 10 1/2W :RC
NL405
R401 1k 1/2W :RC
GND
GND
G1
TO CA (RG) BOARD CAG-2
②
CBG
(CRT SOCKET)
H H
CN263 4P RED :S-MICRO
TO CA (RG) BOARD CAG-3
GND
CN265 1P WHT :MINI
TO CHASSIS GND
B-SS1550<U/C>-CBG

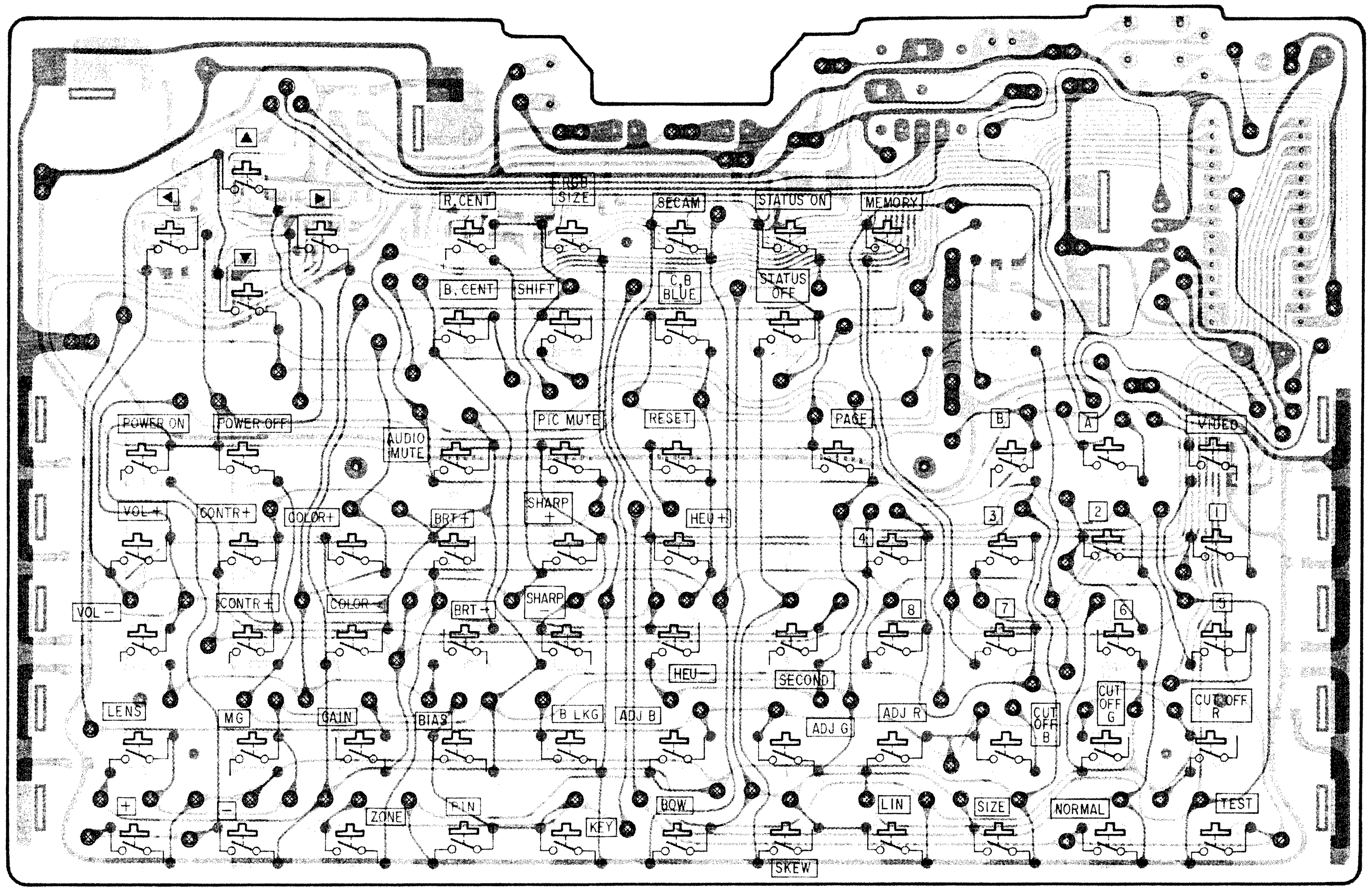

DY-1
GND 1
GND 2
DY
GND 1
GND 2
DY-2
⚠
TO HV BLOCK
SUB DY (R)
DY (R)
R
TO E BOARD E-4
TO DC BOARD DC-4
TO DC BOARD DC-10


TO FOCUS PACK
G2
CN252 1P WHT :MINI
TO FOCUS PACK
TO CRT GND
GND GND
CN254 2P WHT :LARGE
R309 15k 1/2W :RC
R306 100k 1/2W :RC
R302 1k 1/2W :RC
C301 0.0047 2kV
SG301
⚠
①
L303 2.2μH
NL304
NL303
R303 2.7k 1/2W :RC
R307 27 1/2W :RC
CN256 4P WHT :S-MICRO
TO CA (RG) BOARD CAR-1
K
GND
GND
CN251 4P YEL :S-MICRO
NL302
NL301
R308 10 1/2W :RC
NL305
R301 1k 1/2W :RC
GND
GND
G1
TO CA (RG) BOARD CAR-2
②
CBR
(CRT SOCKET)
H H
CN253 4P RED :S-MICRO
TO CA (RG) BOARD CAR-3
GND
CN255 1P WHT :MINI
TO CHASSIS GND
B-SS1550<U/C>-CBR

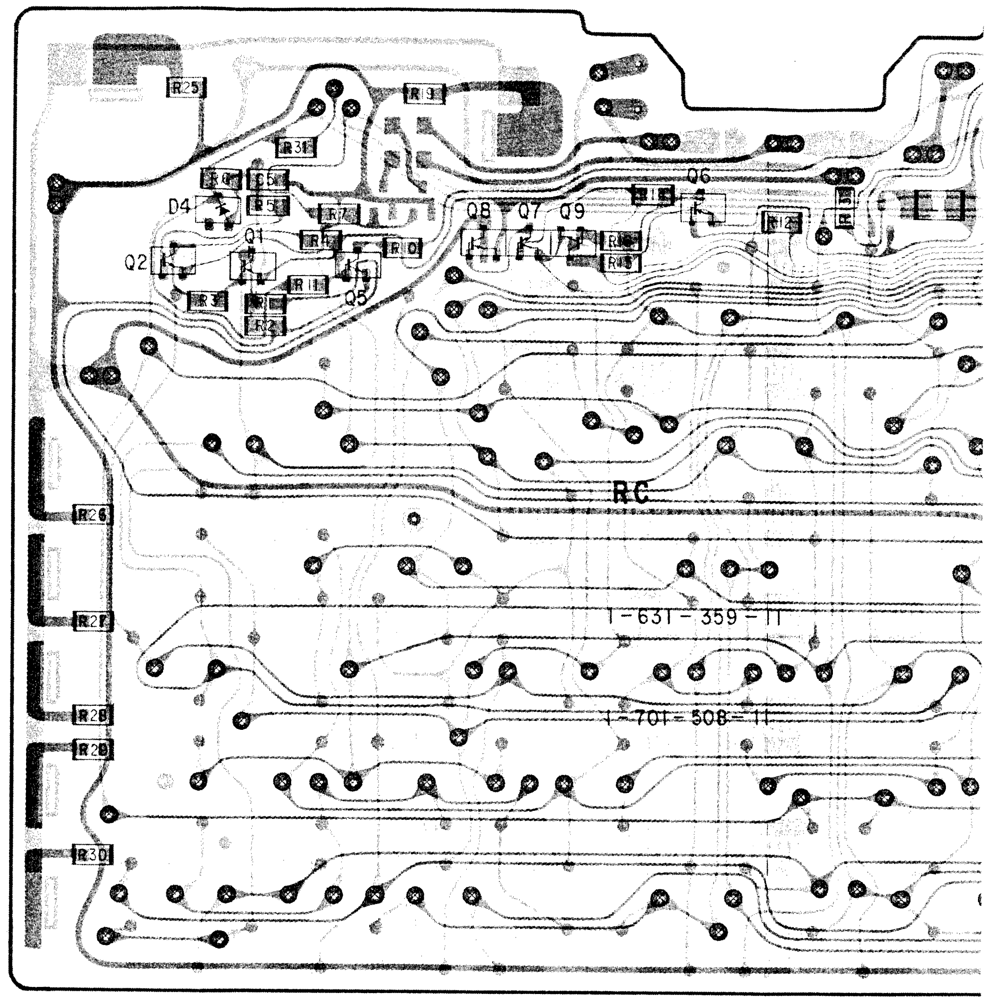

TO QB BOARD (OPTION)
QB-1
QM-1
A
C
QM-2 12P WHT :S-MICRO
POWER CONT 1
+15.5V 2
GND 3
AUDIO (1)(L) 4
GND 5
AUDIO (1)(R) 6
GND 7
HS (RGB) 8
VS (RGB) 9
RGB/VIDEO (1) 10
VIDEO/YC (1) 11
SEL2 12
TO BM BOARD BM-7
①
GND
POWER CONT
GND
+15.5V
⑤
GND
AUDIO (1)(L)
AUDIO (1)(R)
HDVSSEL
GND
⑩
SONG (QHD)
GND
HS (RGB)
VS (RGB)
⑮
GND
RGB/VIDEO (1)
VIDEO/YC (1)
SHARPNESS
COLOR/B&W
GBR/YPBPR
SEL2
⑳
GND
RED (B)
GND
INDEX/NOT
GND
㉕
GREEN (B)
GND
SUB+5V
GND
BLUE (B)
㉚
GND
SIRCS (Z. BC)
SIRCS (BB)
㉜
QM-3 6P YEL :S-MICRO
1 SONG (QHD)
2 GND
3 SHARPNESS
4 COLOR/B&W
5 GBR/YPBPR
6 HDVS SEL
TO BM BOARD BM-9
QM-4 5P BLK :S-MICRO
1 SIRCS (Z. BC)
2 GND
3 SIRCS (BB)
4 INDEX/NOT
5 SUB+5V
TO BM BOARD BM-10
J7
TO BM BOARD J4
J8
TO BM BOARD J5
J9
TO BM BOARD J6
QM
(MOTHER BOARD)
B-SS1550<U/C>-QM.

RC RCA RCB RCC RCD [CONTROL PANEL]

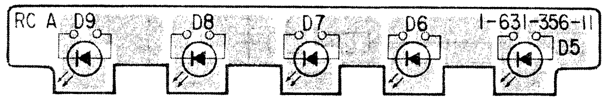
– RC BOARD –


▲
◀
▶
▼
R.CENT
RGB SIZE
SECAM
STATUS ON
MEMORY
B.CENT
SHIFT
C.B BLUE
STATUS OFF
POWER ON
POWER OFF
AUDIO MUTE
PIC MUTE
RESET
PAGE
B
A
VIDEO
VOL+
CONTR+
COLOR+
BRT+
SHARP +
HEU+
4
3
2
1
VOL−
CONTR−
COLOR−
BRT−
SHARP −
HEU−
SECOND
8
7
6
5
LENS
MG
GAIN
BIAS
B LKG
ADJ B
ADJ G
ADJ R
CUT OFF B
CUT OFF G
CUT OFF R
+
−
ZONE
PIN
KEY
BOW
SKEW
LIN
SIZE
NORMAL
TEST

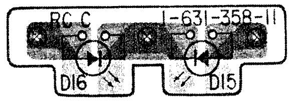
- ░ : Conductor side.
- ▓ : Compoent side.
- ░ : Carbon pattern side.


R25
R9
R31
D4
Q1
Q2
Q8
Q7
Q9
Q6
Q5
R26
R27
R28
R29
R30
RC
1-631-359-11
1-701-508-11

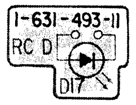
– RCA BOARD –


RC A
D9
D8
D7
D6
1-631-356-11
D5

– RCC BOARD –

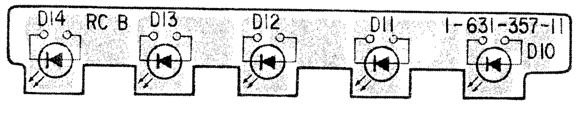

RC C
1-631-358-11
D16
D15

– RCD BOARD –

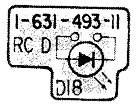

1-631-493-11
RC D
D17

- ░ : Pattern from the side which enables seeing.
- ▓ : Pattern of the rear side.

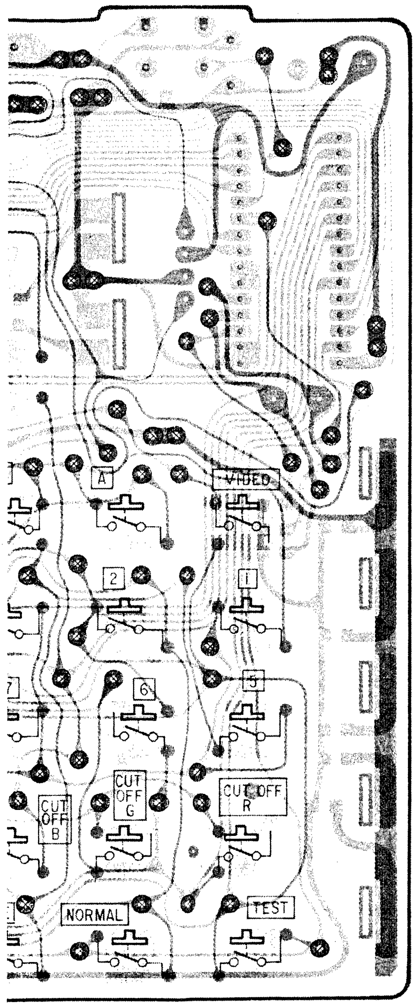
– RCB BOARD –


D14
RC B
D13
D12
D11
1-631-357-11
D10

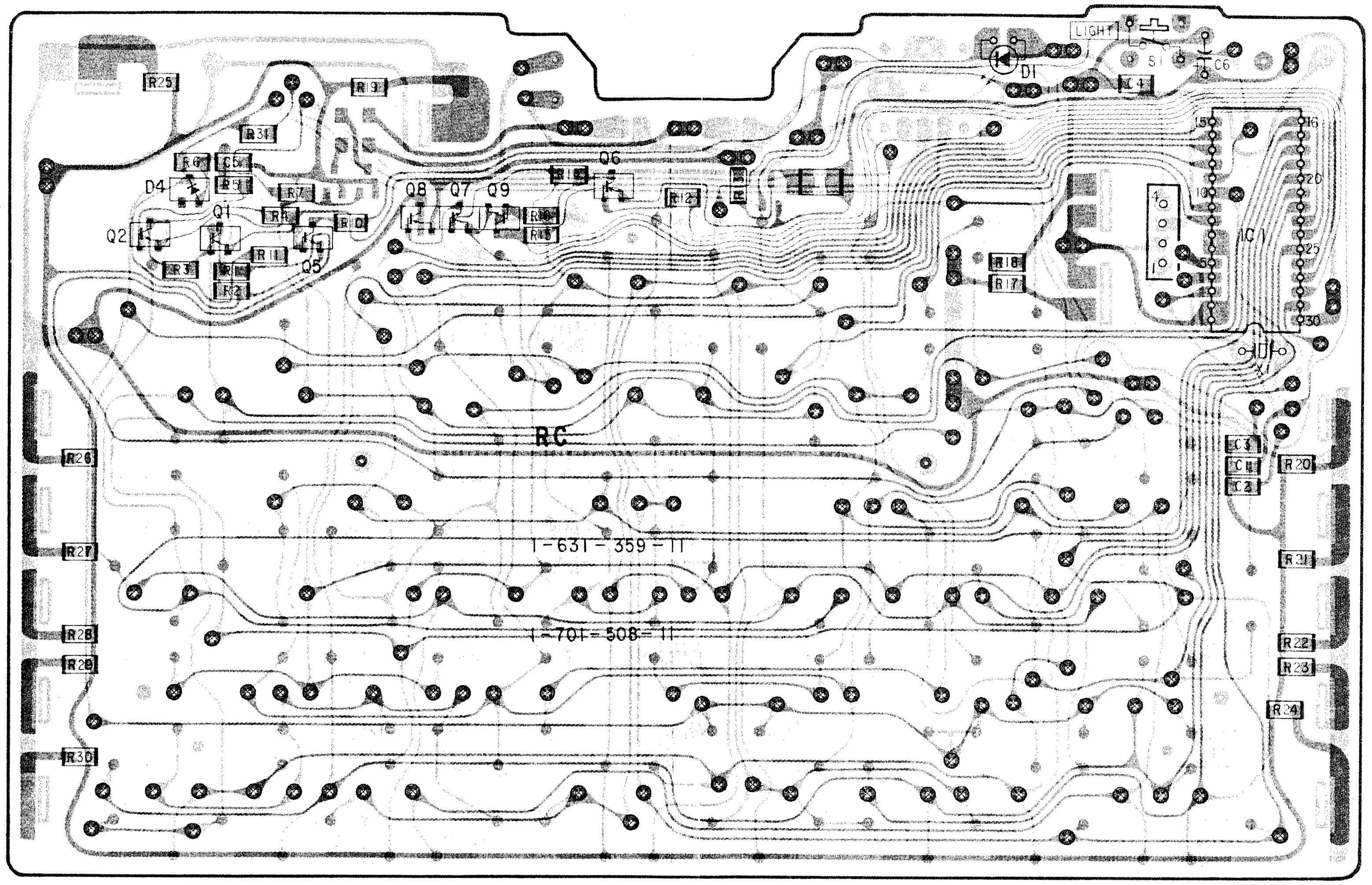
– RCD BOARD –


1-631-493-11
RC D
D18

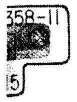
[CONTROL PANEL]


A
VIDEO
2
1
6
5
CUT OFF B
CUT OFF G
CUT OFF R
NORMAL
TEST

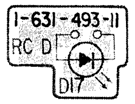
- ▨ : Conductor side.
- ■ : Compoent side.
- ░ : Carbon pattern side.


R25
R9
R31
R6
C5
D4
R5
R7
Q1
Q2
R4
R10
R3
R1
R11
R2
Q5
Q8
Q7
Q9
Q6
R16
R15
R12
LIGHT
S1
D1
C6
C4
15
16
20
25
30
10
5
1
IC1
R18
R17
RC
R26
C3
C1
C2
R20
1-631-359-11
R27
R21
R28
R29
1-701-508-11
R22
R23
R24
R30

- ■ : Compoent side.
- ▨ : Conductor side.
- ░ : Carbon pattern side.

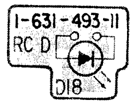


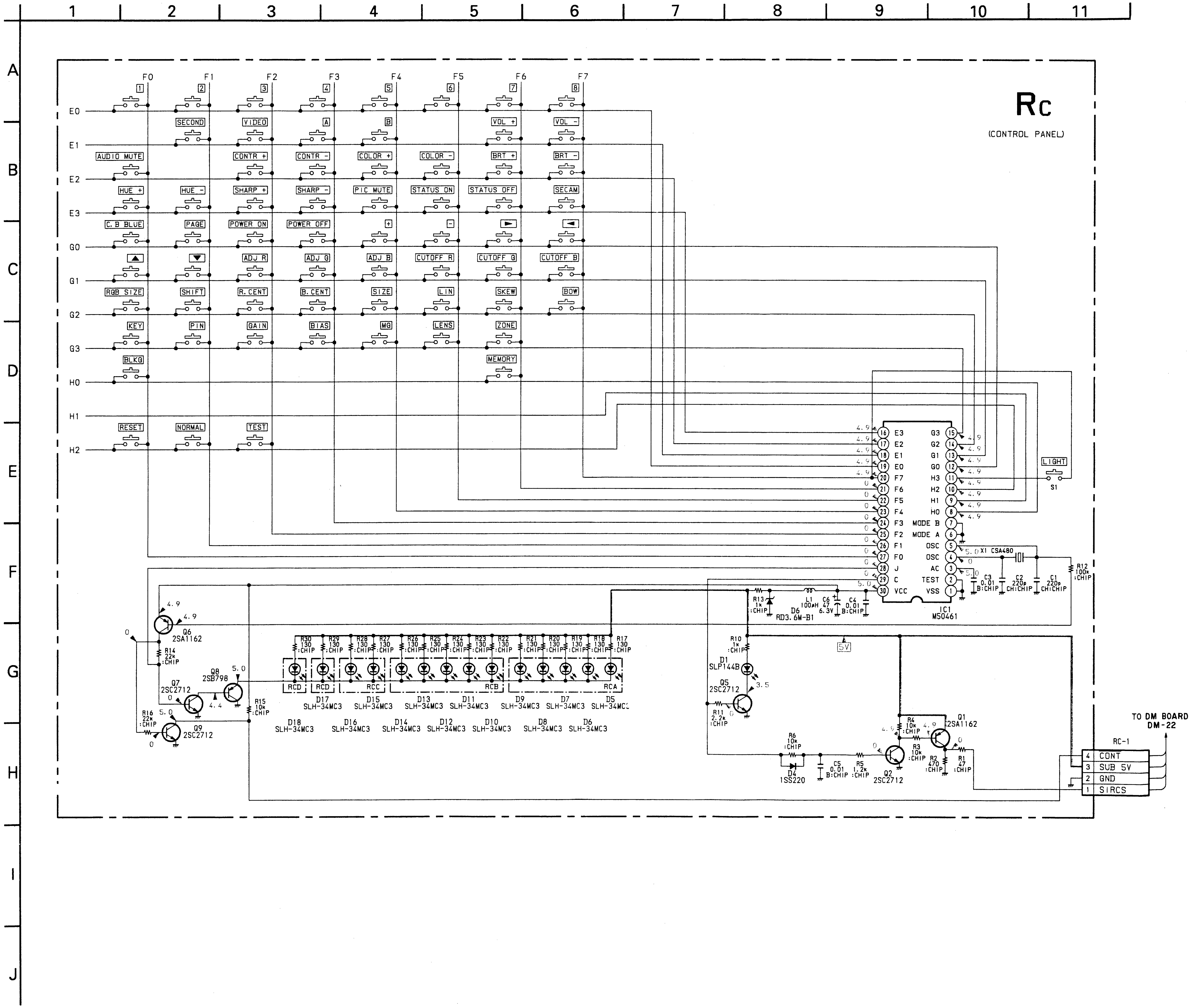
– RCD BOARD –


1-631-493-11
RC D
D17

- ▨ : Pattern from the side which enables seeing.
- ■ : Pattern of the rear side.

– RCD BOARD –


1-631-493-11
RC D
D18


1
2
3
4
5
6
7
8
9
10
11
A
B
C
D
E
F
G
H
I
J
Rc
(CONTROL PANEL)
F0
F1
F2
F3
F4
F5
F6
F7
E0
E1
E2
E3
G0
G1
G2
G3
H0
H1
H2
SECOND
VIDEO
A
B
VOL +
VOL -
AUDIO MUTE
CONTR +
CONTR -
COLOR +
COLOR -
BRT +
BRT -
HUE +
HUE -
SHARP +
SHARP -
PIC MUTE
STATUS ON
STATUS OFF
SECAM
C.B BLUE
PAGE
POWER ON
POWER OFF
ADJ R
ADJ G
ADJ B
CUTOFF R
CUTOFF G
CUTOFF B
RGB SIZE
SHIFT
R.CENT
B.CENT
SIZE
LIN
SKEW
BOW
KEY
PIN
GAIN
BIAS
MG
LENS
ZONE
BLKG
MEMORY
RESET
NORMAL
TEST
LIGHT
S1
IC1
M50461
X1 CSA480
R12 100k :CHIP
RD3.6M-B1
Q6 2SA1162
Q7 2SC2712
Q8 2SB798
Q9 2SC2712
Q5 2SC2712
Q1 2SA1162
Q2 2SC2712
D1 SLP144B
D4 1SS220
RCD
RCC
RCB
RCA
SLH-34MC3
5V
TO DM BOARD DM-22
RC-1
4 CONT
3 SUB 5V
2 GND
1 SIRCS

RC	IC1	M50461-157SP	SIRCS ENCODER
	Q1	2SA1162	SIRCS BUFF2
	2	2SC2712	SIRCS BUFF1
	5	2SC2712	INDICATOR DRIVE
	6	2SA1162	LED SW1
	7	2SC2712	LED DRIVE 1
	8	2SB798	LED DRIVE 2
	9	2SC2712	LED SW2
	D1	SLP144B	INDICATOR
	4	1SS220	
	6	RD3.6M-B1	VCC CONT

RCA	D5	SLH-34MC3	LIGHT
	6	SLH-34MC3	LIGHT
	7	SLH-34MC3	LIGHT
	8	SLH-34MC3	LIGHT
	9	SLH-34MC3	LIGHT

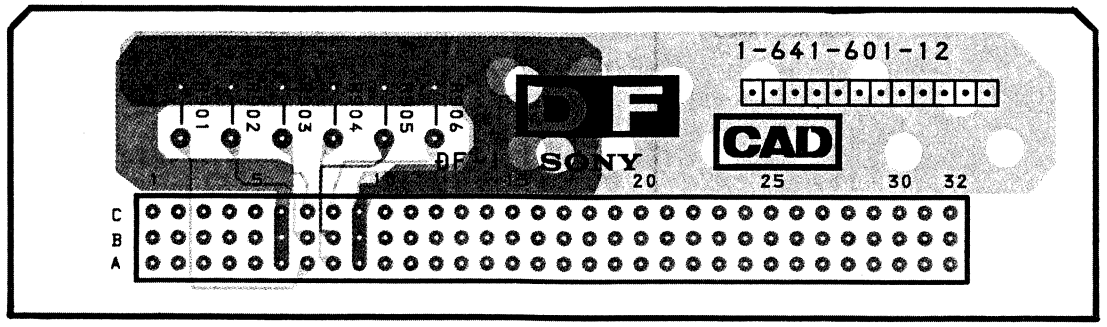
RCB	D10	SLH-34MC3	LIGHT
	11	SLH-34MC3	LIGHT
	12	SLH-34MC3	LIGHT
	13	SLH-34MC3	LIGHT
	14	SLH-34MC3	LIGHT

RCC	D15	SLH-34MC3	LIGHT
	16	SLH-34MC3	LIGHT

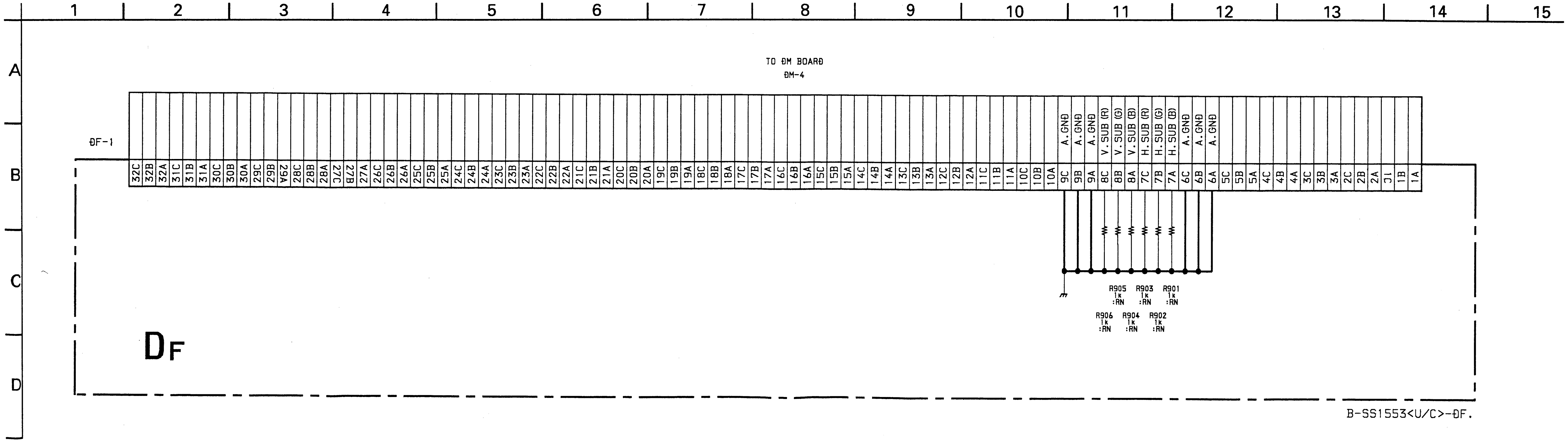
RCD	D1	SLH-34MC3	LIGHT

DF

– DF BOARD –

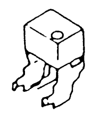

1-641-601-12
DF
CAD
SONY
DF-1
C
B
A
1
5
20
25
30
32

- ░ : Pattern from the side which enables seeing.
- ▓ : Pattern of the rear side.

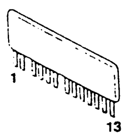

TO DM BOARD
DM-4
DF-1
A.GND
V.SUB (R)
V.SUB (G)
V.SUB (B)
H.SUB (R)
H.SUB (G)
H.SUB (B)
R905 1k :RN
R903 1k :RN
R901 1k :RN
R906 1k :RN
R904 1k :RN
R902 1k :RN
DF
B-SS1553<U/C>-DF.

2-5. SEMICONDUCTORS

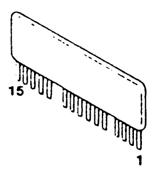
BX1398



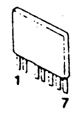
BX-6473



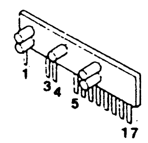
BX-6474



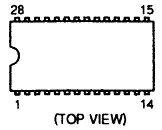
BX-6475



BX7913

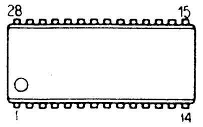


CXA1158P
CXA1216P
MBM27C512-20
TDA4555/V1
μPD28C64ACZ-15

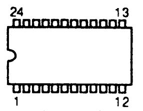


(TOP VIEW)

CXK3864-040M
CXK3864-041M
CXK3864-042M

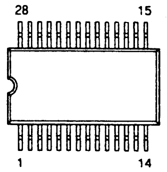


CXK5814P-45L



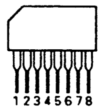
(Top view)

CXK5864BM-12L

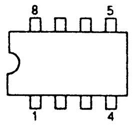


(TOP VIEW)

CX23065A
LA7016

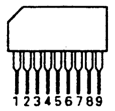


CX7916
LM393P
LM6364N
TL082ACP
TL082CP
μPC393C
μPC4558C
μPC814C

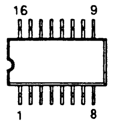


(TOP VIEW)

CX-894

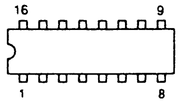


HD14053BFP
HD14538BFP
HD74HC138FP
MC14053BF
MC74HC157AF
SN74HC138ANS
SN74HC157ANS
TC74HC123AF



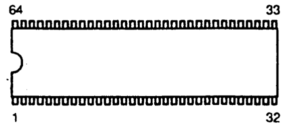
(TOP VIEW)

HD14538BP
HD74HC123AP
MB675429
MC10124L
MC14040BCP
MC14495P1
MC14572UBCP
MC34051P
MC74HC4053N
MC74HC4538AN
MC74HC4538N
SN74S124N
TC4040BP



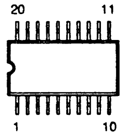
(TOP VIEW)

HD64180R1P8



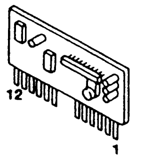
(TOP VIEW)

HD74HC244FP
MC74HC541F
SN74HC244ANS

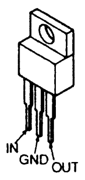


(TOP VIEW)

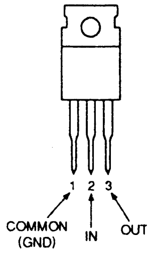
H8B7178B



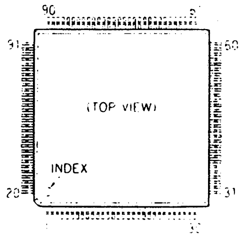
LM2940CT-5.0
LM7812CT
NJM7812FA
μPC7805HF



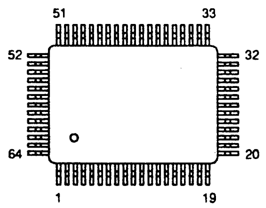
LM7912CT


1
2
3
COMMON
(GND)
IN
OUT

MB605E66

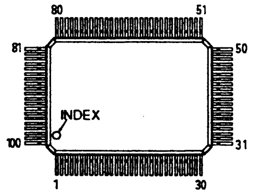

(TOP VIEW)
INDEX

MB654842UPF
MB671469PF


51
33
52
32
64
20
1
19

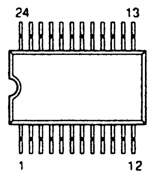
TOP VIEW

MB670840PF


80
51
81
50
INDEX
100
31
1
30

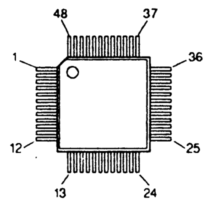
(TOP VIEW)

MB86023



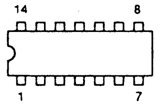
(TOP VIEW)

MB8855-1314N


48
37
1
36
12
25
13
24

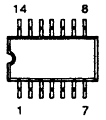
(TOP VIEW)

MC14001BCP
MC14011BCP
MC1495L
MC74HC00AN
MC74HC132AN
MC74HC132N
μPC1394C



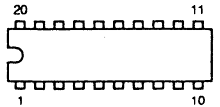
(TOP VIEW)

MC74F00M
MC74HC00AF
MC74HC126AF
MC74HC132AF
MC74HC14AF
SN74HC04ANS
SN74HC107ANS
SN74HC126ANS
SN74HC32ANS
SN74LS12NS



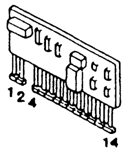
(TOP VIEW)

MC74HC244AN
SN74HC244AN
TC74HC541AP

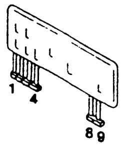


(TOP VIEW)

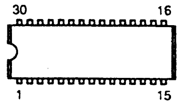
MC-8638



MC-8639

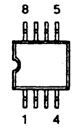


M50461-157SP
M50461-164SP



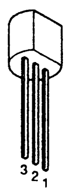
(TOP VIEW)

NJM2228M
μPC393G2
μPC4558G2
μPC814G2-1



(TOP VIEW)

NJM78L05A



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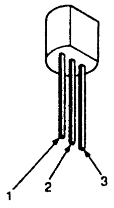
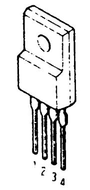


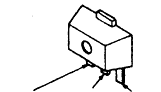
1 GROUND
2 INPUT
3 OUTPUT

PQ05RF1

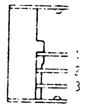


1 V IN 3 GND
2 V OUT 4 ON/OFF CONTROL

RH5VA43AA

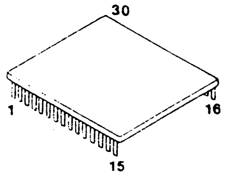

1 V OUT
2 GND
3 V IN

SBX1483-59

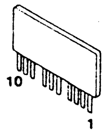


1 Vcc
2 Vout
3 GND

SBX1765-01



SNY-9202



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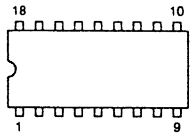
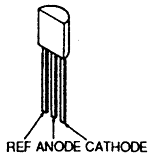


(TOP VIEW)

TL431CLP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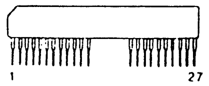
CATHODE

TY885002A



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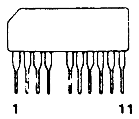
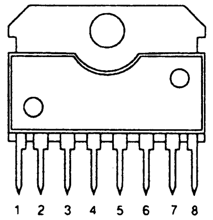
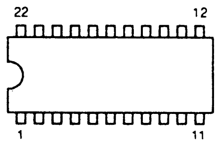


μPC1241H

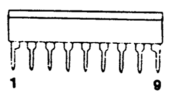


μPC1377C

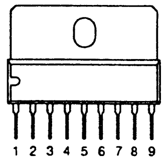


(TOP VIEW)

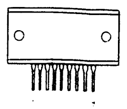
μPC1406HA



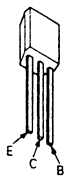
μPC1498H



VPH05B



DTA144ES
DTC144ES
XDA144ES
XDC114ES
XDC144ES



DTC144EK
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2SC1623-L5L6
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2SC2859-Y
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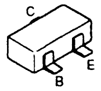
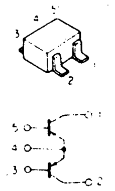


FMS1
FMS2


5
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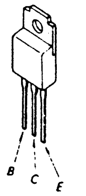
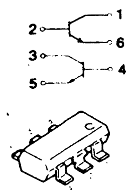
1
2

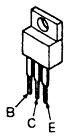
FMW-8
FMW1
FMW2
FMW5



IMX2



IRFIP250
2SC3675
2SD982



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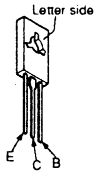
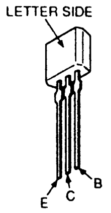
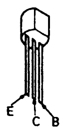
2SA1407-D
2SC2688-LK


Letter side
E
C
B

2SA1175
2SA1175-HFE
2SC2785
2SC2785-HFE


LETTER SIDE
E
C
B

2SA1208-S
2SC2910
2SD789-34
2SD789-4



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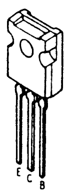

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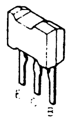

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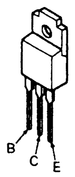

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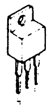
2SD1977



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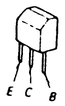

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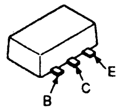

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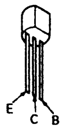


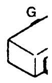
2SC

2SC

2SC

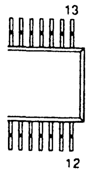
2SD

2SK
2SK



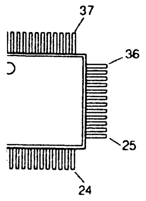
2SK

23



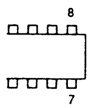
VIEW)

5-1314N



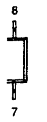
TOP VIEW)

1BCP
11BCP
5L
C00AN
C132AN
C132N
94C



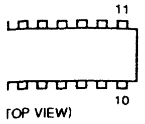
VIEW)

0M
C00AF
C126AF
C132AF
C14AF
04ANS
107ANS
126ANS
32ANS
12NS



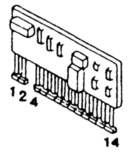
V)

C244AN
244AN
541AP

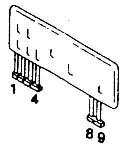


TOP VIEW)

MC-8638



MC-8639



M50461-157SP
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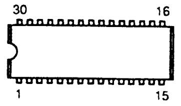

(TOP VIEW)

NJM2228M
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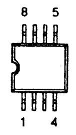
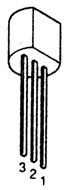


(TOP VIEW)

NJM78L05A



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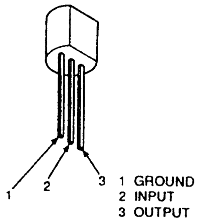
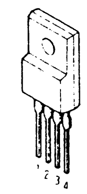
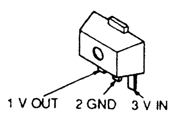

1
2
3
1 GROUND
2 INPUT
3 OUTPUT

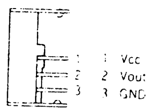
PQ05RF1


1
2
3
4
1 V IN
3 GND
2 V OUT
4 ON/OFF CONTROL

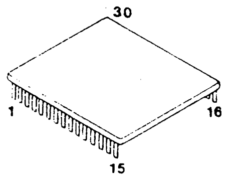
RH5VA43AA


1 V OUT
2 GND
3 V IN

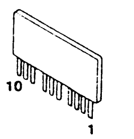
SBX1483-59


1 Vcc
2 Vout
3 GND

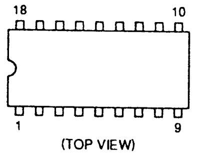
SBX1765-01



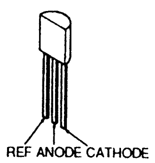
SNY-9202



TDA4565


18
10
1
9
(TOP VIEW)

TL431CLP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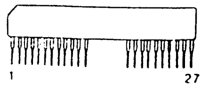
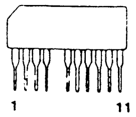
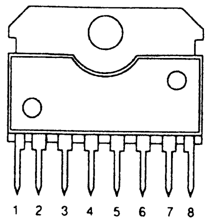
TY885002A



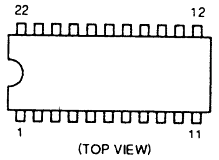
TY911504



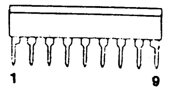
μPC1241H



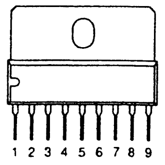
μPC1377C


22
12
1
11
(TOP VIEW)

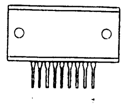
μPC1406HA



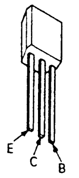
μPC1498H



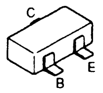
VPH05B



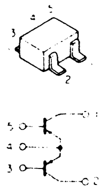
DTA144ES
DTC144ES
XDA144ES
XDC114ES
XDC144ES



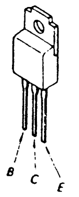
DTC144EK
2SA1162-G
2SA1162-YG
2SA1462-Y33
2SA812
2SC1623-L5L6
2SC2712-YG
2SC2859-Y
2SC3545



FMS1
FMS2



FMW-8
FMW1
FMW2
FMW5



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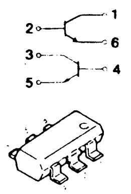

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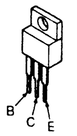

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2SA1407-D
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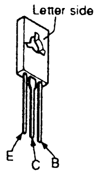
Letter side
E
C
B

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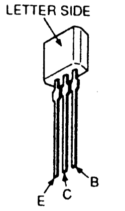
2SC2785-HFE


LETTER SIDE
E
C
B

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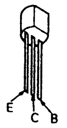
2SD789-34
2SD789-4



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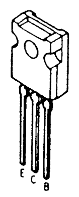

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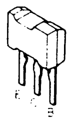

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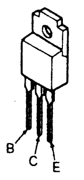

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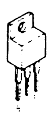

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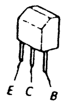
2SD774-34



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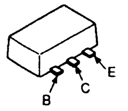

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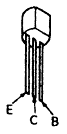

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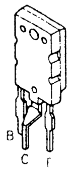

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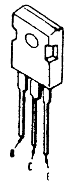

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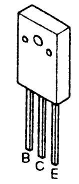

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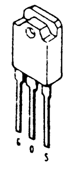

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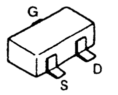

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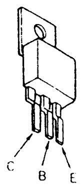

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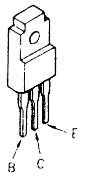

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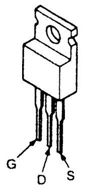
2SK929



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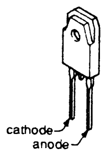
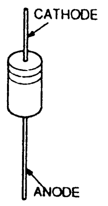

cathode
anode

EGP10D
EGP10G
ERA22-06
RD10ES-B2
RD12ES-B2
RD13ES-B2
RD15ES-B2
RD2.0ES-B2
RD20ES-B2
RD33ES-B2
RD3.3ES-B2
RD39ES-B
RD39ES-B2
RD5.1ES-B2
RD6.8ES-B2
1SS119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ANODE

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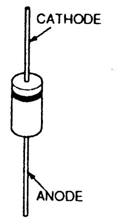
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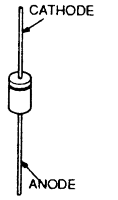
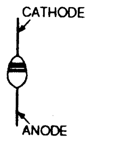
ERC91-02
RU-1
RU-1C


CATHODE
ANODE

ERC06-15SA
ERC38-06
V06C
V09G
V11N
V19EF1


CATHODE
ANODE

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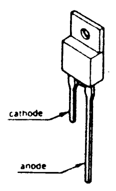
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anode

ERD29-08J
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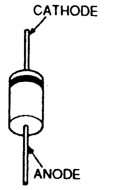
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ANODE

MA152WK
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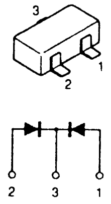

RD12M-B2
RD13M-B2
RD2.4M-B
RD3.3M-B2
RD3.6M-B1
RD4.3M-B1
RD5.1M-B2
RD6.2M-B1
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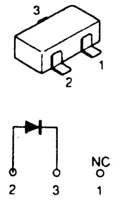
1SS193
1SS220



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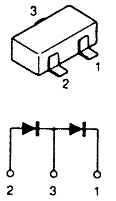

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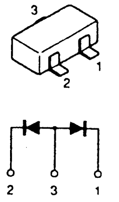

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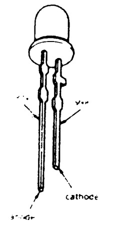
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anode

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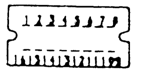
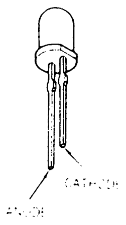
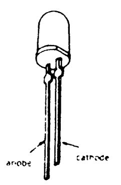


BOTTOM VIEW

PY5504S-1


CATHODE
ANODE

SE303AY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cathode

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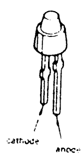
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anode

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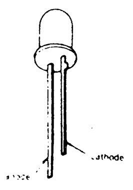
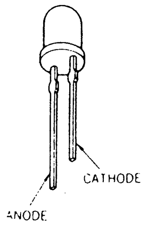

anode
cathode

TLG113A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ANODE

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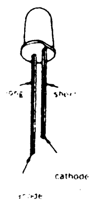
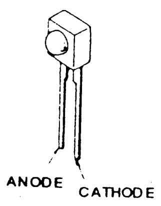

cathode
anode

TLR214

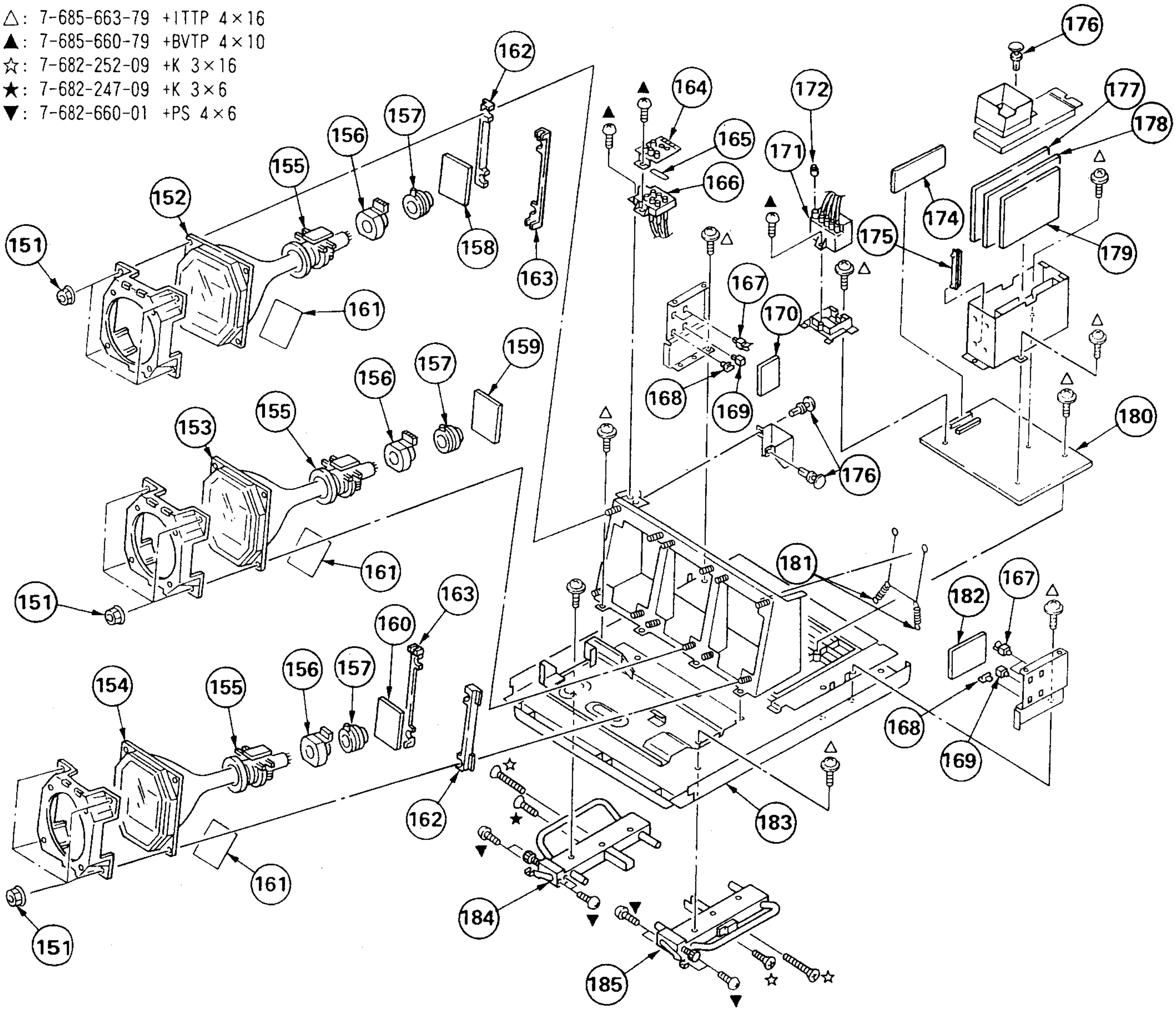

ANODE
CATHODE

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

3-4. BASE 1

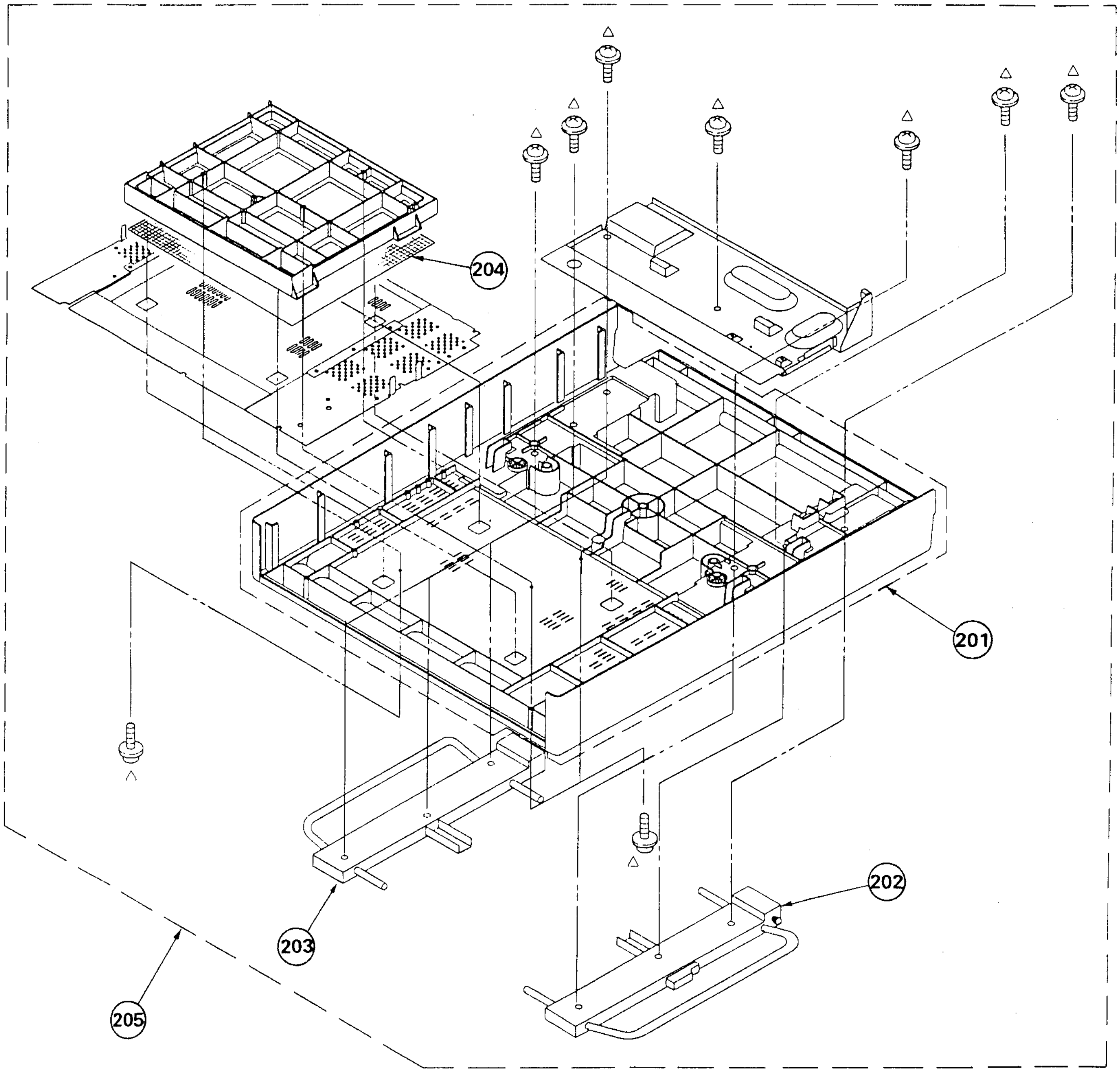
△: 7-685-663-79 +ITTP 4×16
▲: 7-685-660-79 +BVTP 4×10
☆: 7-682-252-09 +K 3×16
★: 7-682-247-09 +K 3×6
▼: 7-682-660-01 +PS 4×6



REF.NO.	PART NO.	DESCRIPTION	REMARK
151	4-304-511-00	NUT (M5), FLANGE	
152	⚠ 8-736-242-05	PICTURE TUBE 07MSP(B)	
153	⚠ 8-736-241-05	PICTURE TUBE 07MSP(G)	
154	⚠ 8-736-243-05	PICTURE TUBE 07MSP(R)	
155	⚠ 1-451-355-11	DEFLECTION YOKE (Y636PJ)	
156	⚠ 1-452-730-11	DEFLECTION YOKE, SUB	
157	⚠ 1-452-429-31	NECK ASSY, PICTURE TUBE (NA366)	
158	*A-1390-425-A	CBB BOARD, COMPLETE	
159	*A-1390-424-A	CBG BOARD, COMPLETE	
160	*A-1390-423-A	CBR BOARD, COMPLETE	
161	4-396-282-01	SHEET (C), ABSORPTION	
162	*4-395-560-01	SPACER (120S), PICTURE TUBE	
163	*4-395-561-01	SPACER (120U), PICTURE TUBE	
164	4-031-481-01	COVER, FOCUS PACK	
165	4-037-163-01	LABEL, SCREEN	
166	⚠ 1-241-744-21	RESISTOR ASSY (HIGH-VOLTAGE)	
167	*3-701-903-11	HOLDER, PC BOARD	
168	*3-659-682-00	HOLDER, PC BOARD	
169	*3-703-141-00	HOLDER, PCB	
170	*A-1380-374-A	KA BOARD, COMPLETE	
171	⚠ 1-453-108-11	DC BLOCK, HIGH-VOLTAGE	
172	4-373-137-01	CAP (Z), RUBBER	
174	*1-641-601-11	DF BOARD	
175	*4-360-309-11	SUPPORT, PC BOARD	
176	4-374-303-01	RIVET, NYLON	
177	*A-1346-189-A	DB BOARD, COMPLETE	
178	*A-1346-191-A	DA BOARD, COMPLETE	
179	*A-1394-325-A	Y BOARD, COMPLETE	
180	*1-641-634-11	DM BOARD	
181	*4-303-774-XX	SPRING	
182	*A-1390-257-A	L BOARD, COMPLETE	
183	4-395-588-03	BASE	
184	X-4395-510-1	HANDLE (LEFT) ASSY	
185	X-4395-509-1	HANDLE (RIGHT) ASSY	

BASE 2

△: 7-685-663-79 +ITTP 4×16



REF.NO.	PART NO.	DESCRIPTION	REMARK
201	4-395-588-03	BASE	
202	X-4395-510-1	HANDLE (LEFT) ASSY	
203	X-4395-509-1	HANDLE (RIGHT) ASSY	
204	*4-043-151-01	NET, BOTTOM	
205	*X-4031-600-1	BASE ASSY	201-204

SECTION 4
ELECTRICAL PARTS LIST

BM **BC**

NOTE:

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS
- All resistors are in ohms
- F : nonflammable

When indicating parts by reference number, please include the board name.

CAPACITORS
- MF : μF, PF : μμF

COILS
- MMH : mH, UH : μH

- The components identified by ⧓ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- ✱ : Selected to yield optimum performance.
- There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.

REF.NO.	PART NO.	DESCRIPTION				REMARK
	*A-1130-976-A	BM BOARD, COMPLETE ******************				
		<CONNECTOR>				
BM-1	*1-568-984-11	CONNECTOR, MALE 96P				
BM-2	*1-568-981-11	CONNECTOR, MALE 64P				
BM-3	*1-568-982-11	CONNECTOR, FEMALE 96P				
BM-4	*1-568-982-11	CONNECTOR, FEMALE 96P				
BM-5	*1-568-985-11	CONNECTOR, FEMALE 64P				
BM-6	*1-568-985-11	CONNECTOR, FEMALE 64P				
BM-7	*1-564-515-11	PLUG, CONNECTOR 12P				
BM-8	*1-568-979-11	CONNECTOR 30P				
BM-9	*1-564-509-11	PLUG, CONNECTOR 6P				
BM-10	*1-564-508-11	PLUG, CONNECTOR 5P				
		<SOCKET>				
J1	*1-526-575-00	SOCKET, PLUG 1P				
J2	*1-526-575-00	SOCKET, PLUG 1P				
J3	*1-526-575-00	SOCKET, PLUG 1P				
J4	*1-526-575-00	SOCKET, PLUG 1P				
J5	*1-526-575-00	SOCKET, PLUG 1P				
J6	*1-526-575-00	SOCKET, PLUG 1P				

****

REF.NO.	PART NO.	DESCRIPTION				REMARK
	*A-1130-978-A	BC BOARD, COMPLETE ******************				
		<CONNECTOR>				
BC-101	*1-568-981-11	CONNECTOR, MALE 64P				
		<CAPACITOR>				
C101	1-101-004-00	CERAMIC	0.01MF		50V	
C102	1-101-004-00	CERAMIC	0.01MF		50V	
C103	1-101-004-00	CERAMIC	0.01MF		50V	
C104	1-101-004-00	CERAMIC	0.01MF		50V	
C105	1-124-927-11	ELECT	4.7MF	20%	50V	
C106	1-124-927-11	ELECT	4.7MF	20%	50V	
C107	1-124-927-11	ELECT	4.7MF	20%	50V	
C108	1-124-927-11	ELECT	4.7MF	20%	50V	
C109	1-126-101-11	ELECT	100MF	20%	16V	
C110	1-124-907-11	ELECT	10MF	20%	50V	
C111	1-101-004-00	CERAMIC	0.01MF		50V	
		<DIODE>				
D101	8-719-911-19	DIODE 1SS119				
D102	8-719-911-19	DIODE 1SS119				
D103	8-719-911-19	DIODE 1SS119				
D104	8-719-911-19	DIODE 1SS119				
D105	8-719-911-19	DIODE 1SS119				
D106	8-719-911-19	DIODE 1SS119				
D107	8-719-900-95	DIODE V09G				
		<IC>				
IC101	8-759-007-21	IC MC74HC4053N				
IC102	8-759-001-00	IC MC74HC132N				
IC103	8-759-001-00	IC MC74HC132N				
IC104	8-759-054-26	IC HD74HC123AP				
IC105	8-759-701-79	IC NJM7812FA				
		<COIL>				
L101	1-459-155-00	COIL (WITH CORE) 45UH				
		<TRANSISTOR>				
Q101	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q102	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q103	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q104	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q105	8-729-119-78	TRANSISTOR 2SC2785-HFE				
		<RESISTOR>				
R101	1-247-807-31	CARBON	100	5%	1/4W	
R102	1-247-807-31	CARBON	100	5%	1/4W	
R103	1-249-437-11	CARBON	47K	5%	1/4W	
R104	1-249-437-11	CARBON	47K	5%	1/4W	
R105	1-249-437-11	CARBON	47K	5%	1/4W	
R106	1-249-429-11	CARBON	10K	5%	1/4W	
R107	1-249-421-11	CARBON	2.2K	5%	1/4W	
R108	1-249-429-11	CARBON	10K	5%	1/4W	
R109	1-249-429-11	CARBON	10K	5%	1/4W	
R110	1-249-429-11	CARBON	10K	5%	1/4W	
R111	1-249-437-11	CARBON	47K	5%	1/4W	
R112	1-247-807-31	CARBON	100	5%	1/4W	
R113	1-249-424-11	CARBON	3.9K	5%	1/4W	
R114	1-247-807-31	CARBON	100	5%	1/4W	
R115	1-249-437-11	CARBON	47K	5%	1/4W	
R116	1-249-424-11	CARBON	3.9K	5%	1/4W	
R117	1-249-429-11	CARBON	10K	5%	1/4W	
R118	1-249-435-11	CARBON	33K	5%	1/4W	
R119	1-249-435-11	CARBON	33K	5%	1/4W	
R120	1-249-421-11	CARBON	2.2K	5%	1/4W	
R121	1-249-429-11	CARBON	10K	5%	1/4W	
R122	1-249-429-11	CARBON	10K	5%	1/4W	

<RELAY>

REF.NO.	PART NO.	DESCRIPTION			REMARK
RY101	1-515-757-11	RELAY			
RY102	1-515-757-11	RELAY			
RY103	1-515-757-11	RELAY			

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*A-1135-692-A BA BOARD, COMPLETE
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4-382-854-11 SCREW (M3X10), P, SW (+)

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION
BA-1	*1-568-984-11	CONNECTOR, MALE 96P

<TRAP MODULE>

REF.NO.	PART NO.	DESCRIPTION
BPF1	1-236-366-11	MODULE, TRAP
BPF2	1-236-365-11	MODULE, TRAP

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION			REMARK
C1	1-124-910-11	ELECT	47MF	20%	50V
C2	1-124-910-11	ELECT	47MF	20%	50V
C3	1-124-910-11	ELECT	47MF	20%	50V
C7	1-124-907-11	ELECT	10MF	20%	50V
C8	1-124-122-11	ELECT	100MF	20%	50V
C9	1-124-122-11	ELECT	100MF	20%	50V
C10	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C11	1-124-907-11	ELECT	10MF	20%	50V
C12	1-124-910-11	ELECT	47MF	20%	50V
C13	1-124-910-11	ELECT	47MF	20%	50V
C14	1-124-910-11	ELECT	47MF	20%	50V
C15	1-124-910-11	ELECT	47MF	20%	50V
C16	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C17	1-124-910-11	ELECT	47MF	20%	50V
C18	1-124-910-11	ELECT	47MF	20%	50V
C19	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C23	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C24	1-124-910-11	ELECT	47MF	20%	50V
C25	1-124-910-11	ELECT	47MF	20%	50V
C26	1-124-910-11	ELECT	47MF	20%	50V
C27	1-124-910-11	ELECT	47MF	20%	50V
C28	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C29	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C30	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C31	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C32	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C33	1-124-907-11	ELECT	10MF	20%	50V
C34	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C35	1-163-093-00	CERAMIC CHIP	10PF	5%	50V
C36	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C37	1-124-903-11	ELECT	1MF	20%	50V
C39	1-163-119-00	CERAMIC CHIP	120PF	5%	50V
C40	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C41	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C42	1-163-099-00	CERAMIC CHIP	18PF	5%	50V
C43	1-124-907-11	ELECT	10MF	20%	50V
C44	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C45	1-163-245-11	CERAMIC CHIP	56PF	5%	50V
C46	1-124-119-00	ELECT	330MF	20%	16V
C47	1-124-119-00	ELECT	330MF	20%	16V
C48	1-163-035-00	CERAMIC CHIP	0.047MF		50V

REF.NO.	PART NO.	DESCRIPTION			REMARK
C49	1-136-153-00	FILM	0.01MF	5%	50V
C50	1-163-033-00	CERAMIC CHIP	0.022MF		50V
C51	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C52	1-163-119-00	CERAMIC CHIP	120PF	5%	50V
C53	1-163-241-11	CERAMIC CHIP	39PF	5%	50V
C54	1-163-099-00	CERAMIC CHIP	18PF	5%	50V
C55	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C56	1-163-099-00	CERAMIC CHIP	18PF	5%	50V
C57	1-163-119-00	CERAMIC CHIP	120PF	5%	50V
C58	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C59	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C60	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C61	1-136-177-00	FILM	1MF	5%	50V
C62	1-136-177-00	FILM	1MF	5%	50V
C63	1-124-122-11	ELECT	100MF	20%	50V
C67	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C68	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C69	1-163-120-00	CERAMIC CHIP	130PF	5%	50V
C70	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C71	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C72	1-124-927-11	ELECT	4.7MF	20%	50V
C73	1-124-903-11	ELECT	1MF	20%	50V
C74	1-136-171-00	FILM	0.33MF	5%	50V
C75	1-130-479-00	MYLAR	0.0047MF	5%	50V
C76	1-136-157-00	FILM	0.022MF	5%	50V
C77	1-136-157-00	FILM	0.022MF	5%	50V
C78	1-163-119-00	CERAMIC CHIP	120PF	5%	50V
C79	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C82	1-136-177-00	FILM	1MF	5%	50V
C83	1-124-907-11	ELECT	10MF	20%	50V
C84	1-124-910-11	ELECT	47MF	20%	50V
C85	1-124-907-11	ELECT	10MF	20%	50V
C86	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C87	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C88	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C89	1-164-161-11	CERAMIC CHIP	0.0022MF		50V
C90	1-124-122-11	ELECT	100MF	20%	50V
C91	1-163-103-00	CERAMIC CHIP	27PF	5%	50V
C104	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C106	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C201	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C202	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C203	1-136-157-00	FILM	0.022MF	5%	50V
C205	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C207	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C208	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C211	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C212	1-163-224-11	CERAMIC CHIP	7PF	0.25PF	50V
C213	1-124-122-11	ELECT	100MF	20%	50V
C214	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C215	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C216	1-124-122-11	ELECT	100MF	20%	50V
C217	1-124-122-11	ELECT	100MF	20%	50V
C218	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C219	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C220	1-124-122-11	ELECT	100MF	20%	50V
C221	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C222	1-124-122-11	ELECT	100MF	20%	50V
C223	1-124-122-11	ELECT	100MF	20%	50V
C224	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C229	1-124-907-11	ELECT	10MF	20%	50V
C230	1-124-122-11	ELECT	100MF	20%	50V
C231	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C234	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V

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REF.NO.	PART NO.	DESCRIPTION			REMARK
C235	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C236	1-124-907-11	ELECT	10MF	20%	50V
C237	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C238	1-124-907-11	ELECT	10MF	20%	50V
C239	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C240	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C241	1-124-927-11	ELECT	4.7MF	20%	50V
C242	1-124-907-11	ELECT	10MF	20%	50V
C243	1-124-907-11	ELECT	10MF	20%	50V
C244	1-124-907-11	ELECT	10MF	20%	50V
C301	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C302	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C303	1-124-916-11	ELECT	22MF	20%	50V
C304	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C305	1-124-916-11	ELECT	22MF	20%	50V
C306	1-124-910-11	ELECT	47MF	20%	50V
C307	1-136-169-00	FILM	0.22MF	5%	50V
C308	1-124-902-00	ELECT	0.47MF	20%	50V
C309	1-124-902-00	ELECT	0.47MF	20%	50V
C310	1-124-902-00	ELECT	0.47MF	20%	50V
C311	1-124-916-11	ELECT	22MF	20%	50V
C312	1-124-910-11	ELECT	47MF	20%	50V
C313	1-124-910-11	ELECT	47MF	20%	50V
C314	1-124-910-11	ELECT	47MF	20%	50V
C315	1-124-910-11	ELECT	47MF	20%	50V
C316	1-124-902-00	ELECT	0.47MF	20%	50V
C317	1-126-101-11	ELECT	100MF	20%	16V
C318	1-124-910-11	ELECT	47MF	20%	50V
C319	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C320	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C321	1-124-907-11	ELECT	10MF	20%	50V
C322	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C323	1-124-907-11	ELECT	10MF	20%	50V
C324	1-124-902-00	ELECT	0.47MF	20%	50V
C325	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C326	1-163-033-00	CERAMIC CHIP	0.022MF		50V
C327	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C328	1-163-033-00	CERAMIC CHIP	0.022MF		50V
C329	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C330	1-163-105-00	CERAMIC CHIP	33PF	5%	50V
C331	1-136-177-00	FILM	1MF	5%	50V
C332	1-136-169-00	FILM	0.22MF	5%	50V
C333	1-124-907-11	ELECT	10MF	20%	50V
C334	1-124-910-11	ELECT	47MF	20%	50V
C335	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C336	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C337	1-163-089-00	CERAMIC CHIP	6PF	0.25PF	50V
C338	1-124-907-11	ELECT	10MF	20%	50V
C339	1-124-903-11	ELECT	1MF	20%	50V
C340	1-124-903-11	ELECT	1MF	20%	50V
C341	1-124-907-11	ELECT	10MF	20%	50V
C342	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C343	1-124-910-11	ELECT	47MF	20%	50V
C344	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C346	1-124-907-11	ELECT	10MF	20%	50V
C347	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C350	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C351	1-124-903-11	ELECT	1MF	20%	50V
C352	1-124-907-11	ELECT	10MF	20%	50V

<TRIMMER>

CT101	1-141-181-11	CAP, TRIMMER
CT102	1-141-181-11	CAP, TRIMMER

<DIODE>

REF.NO.	PART NO.	DESCRIPTION	REMARK
D1	8-719-400-18	DIODE MA152WK	
D2	8-719-400-18	DIODE MA152WK	
D3	8-719-400-18	DIODE MA152WK	
D4	8-719-400-18	DIODE MA152WK	
D5	8-719-400-18	DIODE MA152WK	
D6	8-719-104-34	DIODE 1S2836	
D7	8-719-400-18	DIODE MA152WK	
D8	8-719-400-18	DIODE MA152WK	
D9	8-719-400-18	DIODE MA152WK	
D10	8-719-400-18	DIODE MA152WK	
D11	8-719-800-76	DIODE 1SS226	
D12	8-719-400-18	DIODE MA152WK	
D13	8-719-400-18	DIODE MA152WK	
D14	8-719-400-18	DIODE MA152WK	
D101	8-719-105-46	DIODE RD3.3M-B2	
D102	8-719-105-82	DIODE RD5.1M-B2	
D103	8-719-400-18	DIODE MA152WK	
D107	8-719-400-18	DIODE MA152WK	
D108	8-719-900-95	DIODE V09G	
D109	8-719-900-95	DIODE V09G	
D110	8-719-105-XX	DIODE RD6.2M-B1	
D112	8-719-400-18	DIODE MA152WK	
D113	8-719-400-18	DIODE MA152WK	
D118	8-719-104-34	DIODE 1S2836	
D119	8-719-400-18	DIODE MA152WK	
D130	8-719-400-18	DIODE MA152WK	
D132	8-719-104-34	DIODE 1S2836	
D201	8-719-400-18	DIODE MA152WK	
D301	8-719-400-18	DIODE MA152WK	
D303	8-719-400-18	DIODE MA152WK	
D304	8-719-105-63	DIODE RD4.3M-B1	
D350	8-719-400-18	DIODE MA152WK	
D351	8-719-400-18	DIODE MA152WK	
D352	8-719-400-18	DIODE MA152WK	

<DELAY LINE>

DL101	1-415-122-31	DELAY LINE, 1H (PAL)
DL102	1-402-679-11	DELAY LINE
DL103	1-415-494-11	DELAY LINE, Y
DL104	1-415-494-11	DELAY LINE, Y

<FILTER>

FL1	1-236-164-11	ENCAPSULATED COMPONENT
FL2	1-236-620-11	FILTER, LOW PASS
FL3	1-236-620-11	FILTER, LOW PASS
FL4	1-236-620-11	FILTER, LOW PASS

<IC>

IC1	8-759-300-71	IC HD14053BFP
IC2	8-759-513-47	IC TDA4555/V1
IC3	8-759-932-16	IC TDA4565
IC5	8-759-710-42	IC NJM2228M
IC6	8-759-208-94	IC CX-894
IC7	8-759-300-71	IC HD14053BFP
IC8	8-752-034-85	IC CXA1216P
IC9	8-759-100-96	IC UPC4558G2
IC10	8-741-765-01	IC SBX1765-01
IC11	8-759-979-16	IC CX-7916

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REF.NO.	PART NO.	DESCRIPTION	REMARK
IC12	1-808-891-11	MODULE SNY-9202	
IC13	8-759-100-96	IC UPC4558G2	
IC14	8-759-929-84	IC SN74LS12NS	
IC15	1-809-576-11	MODULE, H8B7178B	
IC16	8-759-701-79	IC NJM7812FA	
IC17	8-759-504-46	IC PQ05RF1	
IC19	8-759-926-06	IC SN74HC126ANS	
		<COIL>	
L101	1-410-470-11	INDUCTOR 10UH	
L102	1-410-209-51	INDUCTOR CHIP 27UH	
L103	1-410-466-41	INDUCTOR 4.7UH	
L104	1-408-406-00	INDUCTOR 5.6UH	
L105	1-404-539-11	COIL	
L106	1-404-554-11	COIL	
L107	1-404-554-11	COIL	
L108	1-404-554-11	COIL	
L109	1-408-397-00	INDUCTOR 1UH	
L110	1-410-466-41	INDUCTOR 4.7UH	
L111	1-410-466-41	INDUCTOR 4.7UH	
L112	1-410-466-41	INDUCTOR 4.7UH	
L114	1-459-155-00	COIL (WITH CORE) 45UH	
L115	1-459-155-00	COIL (WITH CORE) 45UH	
L116	1-410-466-41	INDUCTOR 4.7UH	
L120	1-404-584-11	COIL	
L136	1-408-777-00	INDUCTOR CHIP 10UH	
		<TRANSISTOR>	
Q2	8-729-901-01	TRANSISTOR DTC144EK	
Q3	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q7	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q8	8-729-901-01	TRANSISTOR DTC144EK	
Q9	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q10	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q11	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q12	8-729-216-22	TRANSISTOR 2SA1162-G	
Q13	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q14	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q15	8-729-901-01	TRANSISTOR DTC144EK	
Q16	8-729-901-01	TRANSISTOR DTC144EK	
Q17	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q18	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q19	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q20	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q21	8-729-901-01	TRANSISTOR DTC144EK	
Q22	8-729-901-01	TRANSISTOR DTC144EK	
Q23	8-729-901-01	TRANSISTOR DTC144EK	
Q24	8-729-901-01	TRANSISTOR DTC144EK	
Q25	8-729-901-01	TRANSISTOR DTC144EK	
Q26	8-729-901-01	TRANSISTOR DTC144EK	
Q27	8-729-901-01	TRANSISTOR DTC144EK	
Q28	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q29	8-729-216-22	TRANSISTOR 2SA1162-G	
Q30	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q31	8-729-216-22	TRANSISTOR 2SA1162-G	
Q32	8-729-216-22	TRANSISTOR 2SA1162-G	
Q33	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q34	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q35	8-729-901-01	TRANSISTOR DTC144EK	
Q36	8-729-216-22	TRANSISTOR 2SA1162-G	
Q37	8-729-901-01	TRANSISTOR DTC144EK	
Q38	8-729-901-01	TRANSISTOR DTC144EK	
Q39	8-729-116-06	TRANSISTOR 2SK160-K6	
Q40	8-729-116-06	TRANSISTOR 2SK160-K6	
Q41	8-729-901-01	TRANSISTOR DTC144EK	
Q43	8-729-901-01	TRANSISTOR DTC144EK	
Q45	8-729-901-01	TRANSISTOR DTC144EK	
Q48	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q49	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q50	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q51	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q52	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q118	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q119	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q120	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q152	8-729-901-01	TRANSISTOR DTC144EK	
Q201	8-729-901-01	TRANSISTOR DTC144EK	
Q202	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q203	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q204	8-729-901-01	TRANSISTOR DTC144EK	
Q205	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q206	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q207	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q208	8-729-901-01	TRANSISTOR DTC144EK	
Q209	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q210	8-729-216-22	TRANSISTOR 2SA1162-G	
Q212	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q213	8-729-216-22	TRANSISTOR 2SA1162-G	
Q301	8-729-140-96	TRANSISTOR 2SD774-34	
Q302	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q303	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q304	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q305	8-729-901-01	TRANSISTOR DTC144EK	
Q306	8-729-901-01	TRANSISTOR DTC144EK	
Q307	8-729-901-01	TRANSISTOR DTC144EK	
Q308	8-729-901-01	TRANSISTOR DTC144EK	
Q309	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q310	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q311	8-729-901-01	TRANSISTOR DTC144EK	
Q312	8-729-901-01	TRANSISTOR DTC144EK	
Q313	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q314	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q315	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q316	8-729-901-01	TRANSISTOR DTC144EK	
Q317	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q318	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q319	8-729-901-01	TRANSISTOR DTC144EK	
Q320	8-729-901-01	TRANSISTOR DTC144EK	
Q321	8-729-901-01	TRANSISTOR DTC144EK	
Q323	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q324	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q325	8-729-901-01	TRANSISTOR DTC144EK	
Q326	8-729-901-01	TRANSISTOR DTC144EK	
Q327	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q329	8-729-116-06	TRANSISTOR 2SK160-K6	
Q330	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q336	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q337	8-729-216-22	TRANSISTOR 2SA1162-G	
Q338	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q340	8-729-901-01	TRANSISTOR DTC144EK	
Q350	8-729-901-01	TRANSISTOR DTC144EK	
Q351	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q352	8-729-230-49	TRANSISTOR 2SC2712-YG	
		<RESISTOR>	

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REF.NO.	PART NO.	DESCRIPTION				REMARK
R1	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R2	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R3	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R4	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R6	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R7	1-216-683-11	METAL CHIP	22K	0.50%	1/10W	
R8	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R11	1-216-643-11	METAL CHIP	470	0.50%	1/10W	
R12	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R13	1-216-691-11	METAL CHIP	47K	0.50%	1/10W	
R14	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R15	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W	
R16	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R17	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R18	1-216-691-11	METAL CHIP	47K	0.50%	1/10W	
R19	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R20	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R21	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	
R22	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R23	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R24	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	
R25	1-216-643-11	METAL CHIP	470	0.50%	1/10W	
R26	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R27	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R29	1-216-691-11	METAL CHIP	47K	0.50%	1/10W	
R30	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R31	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R32	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R33	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R34	1-216-047-00	METAL GLAZE	820	5%	1/10W	
R38	1-216-047-00	METAL GLAZE	820	5%	1/10W	
R39	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R40	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R41	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	
R42	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R43	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R44	1-216-047-00	METAL GLAZE	820	5%	1/10W	
R45	1-216-641-11	METAL CHIP	390	0.50%	1/10W	
R46	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R47	1-216-043-00	METAL GLAZE	560	5%	1/10W	
R48	1-216-035-00	METAL GLAZE	270	5%	1/10W	
R49	1-216-635-11	METAL CHIP	220	0.50%	1/10W	
R50	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R51	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	
R52	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	
R53	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	
R54	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R55	1-216-627-11	METAL CHIP	100	0.50%	1/10W	
R56	1-216-627-11	METAL CHIP	100	0.50%	1/10W	
R57	1-216-627-11	METAL CHIP	100	0.50%	1/10W	
R58	1-216-683-11	METAL CHIP	22K	0.50%	1/10W	
R59	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	
R60	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R61	1-216-643-11	METAL CHIP	470	0.50%	1/10W	
R63	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R64	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R65	1-216-683-11	METAL CHIP	22K	0.50%	1/10W	
R66	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	
R67	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	
R68	1-216-643-11	METAL CHIP	470	0.50%	1/10W	
R69	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R70	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R71	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R72	1-216-683-11	METAL CHIP	22K	0.50%	1/10W	
R73	1-216-683-11	METAL CHIP	22K	0.50%	1/10W	
R74	1-216-683-11	METAL CHIP	22K	0.50%	1/10W	
R75	1-216-683-11	METAL CHIP	22K	0.50%	1/10W	
R76	1-216-683-11	METAL CHIP	22K	0.50%	1/10W	
R77	1-216-683-11	METAL CHIP	22K	0.50%	1/10W	
R78	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R80	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W	
R81	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R82	1-216-639-11	METAL CHIP	330	0.50%	1/10W	
R83	1-216-031-00	METAL GLAZE	180	5%	1/10W	
R84	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R85	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W	
R86	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	
R87	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	
R88	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R89	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R90	1-216-043-00	METAL GLAZE	560	5%	1/10W	
R91	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R92	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R93	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R94	1-216-643-11	METAL CHIP	470	0.50%	1/10W	
R95	1-216-641-11	METAL CHIP	390	0.50%	1/10W	
R101	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R102	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R103	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R104	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R105	1-216-066-00	METAL GLAZE	5.1K	5%	1/10W	
R106	1-216-691-11	METAL CHIP	47K	0.50%	1/10W	
R107	1-216-627-11	METAL CHIP	100	0.50%	1/10W	
R108	1-216-691-11	METAL CHIP	47K	0.50%	1/10W	
R116	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R117	1-216-121-00	METAL GLAZE	1M	5%	1/10W	
R118	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R119	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R120	1-216-121-00	METAL GLAZE	1M	5%	1/10W	
R121	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R122	1-216-681-11	METAL CHIP	18K	0.50%	1/10W	
R123	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W	
R124	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R125	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R126	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R127	1-216-047-00	METAL GLAZE	820	5%	1/10W	
R128	1-216-643-11	METAL CHIP	470	0.50%	1/10W	
R129	1-216-635-11	METAL CHIP	220	0.50%	1/10W	
R130	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R131	1-216-665-11	METAL CHIP	3.9K	0.50%	1/10W	
R132	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W	
R133	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R134	1-216-627-11	METAL CHIP	100	0.50%	1/10W	
R135	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R141	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R142	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R143	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R145	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R146	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R148	1-216-683-11	METAL CHIP	22K	0.50%	1/10W	
R149	1-216-683-11	METAL CHIP	22K	0.50%	1/10W	
R150	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R201	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R202	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R203	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W	
R204	1-216-073-00	METAL GLAZE	10K	5%	1/10W	

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REF.NO.	PART NO.	DESCRIPTION				REMARK
R205	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R206	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R207	1-216-683-11	METAL CHIP	22K	0.50%	1/10W	
R208	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R209	1-216-013-00	METAL GLAZE	33	5%	1/10W	
R210	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R211	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R212	1-216-683-11	METAL CHIP	22K	0.50%	1/10W	
R213	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R214	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R215	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R216	1-216-013-00	METAL GLAZE	33	5%	1/10W	
R217	1-216-665-11	METAL CHIP	3.9K	0.50%	1/10W	
R218	1-216-627-11	METAL CHIP	100	0.50%	1/10W	
R219	1-216-023-00	METAL GLAZE	82	5%	1/10W	
R220	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R221	1-216-035-00	METAL GLAZE	270	5%	1/10W	
R222	1-216-627-11	METAL CHIP	100	0.50%	1/10W	
R223	1-216-035-00	METAL GLAZE	270	5%	1/10W	
R224	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R225	1-216-075-00	METAL GLAZE	12K	5%	1/10W	
R226	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R227	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R228	1-216-043-00	METAL GLAZE	560	5%	1/10W	
R229	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R230	1-216-683-11	METAL CHIP	22K	0.50%	1/10W	
R231	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R232	1-216-627-11	METAL CHIP	100	0.50%	1/10W	
R233	1-216-641-11	METAL CHIP	390	0.50%	1/10W	
R234	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R235	1-216-075-00	METAL GLAZE	12K	5%	1/10W	
R236	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R237	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R238	1-216-043-00	METAL GLAZE	560	5%	1/10W	
R239	1-216-627-11	METAL CHIP	100	0.50%	1/10W	
R240	1-216-627-11	METAL CHIP	100	0.50%	1/10W	
R241	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R242	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R244	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R290	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R301	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R302	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R303	1-216-643-11	METAL CHIP	470	0.50%	1/10W	
R304	1-216-119-00	METAL GLAZE	820K	5%	1/10W	
R305	1-216-005-00	METAL GLAZE	15	5%	1/10W	
R306	1-216-691-11	METAL CHIP	47K	0.50%	1/10W	
R307	1-216-109-00	METAL GLAZE	330K	5%	1/10W	
R308	1-216-627-11	METAL CHIP	100	0.50%	1/10W	
R309	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R310	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	
R311	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R312	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	
R313	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R314	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	
R315	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R316	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R317	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R318	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	
R319	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R320	1-216-043-00	METAL GLAZE	560	5%	1/10W	
R321	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R322	1-216-689-11	METAL CHIP	39K	0.50%	1/10W	
R323	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R324	1-216-681-11	METAL CHIP	18K	0.50%	1/10W	

REF.NO.	PART NO.	DESCRIPTION				REMARK
R325	1-216-683-11	METAL CHIP	22K	0.50%	1/10W	
R326	1-216-683-11	METAL CHIP	22K	0.50%	1/10W	
R327	1-216-681-11	METAL CHIP	18K	0.50%	1/10W	
R328	1-216-683-11	METAL CHIP	22K	0.50%	1/10W	
R329	1-216-683-11	METAL CHIP	22K	0.50%	1/10W	
R330	1-216-683-11	METAL CHIP	22K	0.50%	1/10W	
R331	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R332	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R333	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R334	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R335	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R336	1-216-691-11	METAL CHIP	47K	0.50%	1/10W	
R337	1-216-691-11	METAL CHIP	47K	0.50%	1/10W	
R338	1-216-691-11	METAL CHIP	47K	0.50%	1/10W	
R339	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R340	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R341	1-216-691-11	METAL CHIP	47K	0.50%	1/10W	
R342	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R343	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R344	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	
R345	1-216-109-00	METAL GLAZE	330K	5%	1/10W	
R346	1-216-627-11	METAL CHIP	100	0.50%	1/10W	
R347	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R348	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R349	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R350	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R351	1-216-095-00	METAL GLAZE	82K	5%	1/10W	
R352	1-216-691-11	METAL CHIP	47K	0.50%	1/10W	
R353	1-216-101-00	METAL GLAZE	150K	5%	1/10W	
R354	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R355	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R356	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R357	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	
R358	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R359	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R360	1-216-095-00	METAL GLAZE	82K	5%	1/10W	
R361	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R362	1-216-075-00	METAL GLAZE	12K	5%	1/10W	
R363	1-216-023-00	METAL GLAZE	82	5%	1/10W	
R364	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	
R365	1-216-627-11	METAL CHIP	100	0.50%	1/10W	
R366	1-216-627-11	METAL CHIP	100	0.50%	1/10W	
R367	1-216-681-11	METAL CHIP	18K	0.50%	1/10W	
R368	1-216-047-00	METAL GLAZE	820	5%	1/10W	
R369	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R370	1-216-627-11	METAL CHIP	100	0.50%	1/10W	
R371	1-216-665-11	METAL CHIP	3.9K	0.50%	1/10W	
R372	1-216-627-11	METAL CHIP	100	0.50%	1/10W	
R373	1-216-627-11	METAL CHIP	100	0.50%	1/10W	
R374	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R375	1-216-627-11	METAL CHIP	100	0.50%	1/10W	
R376	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R377	1-216-083-00	METAL GLAZE	27K	5%	1/10W	
R378	1-216-091-00	METAL GLAZE	56K	5%	1/10W	
R379	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R380	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R381	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R382	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R383	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R384	1-216-043-00	METAL GLAZE	560	5%	1/10W	
R385	1-216-681-11	METAL CHIP	18K	0.50%	1/10W	
R386	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R387	1-216-635-11	METAL CHIP	220	0.50%	1/10W	

REF.NO.	PART NO.	DESCRIPTION				REMARK
R388	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R389	1-216-635-11	METAL CHIP	220	0.50%	1/10W	
R390	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R391	1-216-043-00	METAL GLAZE	560	5%	1/10W	
R392	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R393	1-216-013-00	METAL GLAZE	33	5%	1/10W	
R394	1-216-013-00	METAL GLAZE	33	5%	1/10W	
R395	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R396	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	
R397	1-216-047-00	METAL GLAZE	820	5%	1/10W	
R398	1-216-013-00	METAL GLAZE	33	5%	1/10W	
R399	1-216-013-00	METAL GLAZE	33	5%	1/10W	
R410	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R411	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R412	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R415	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R416	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R417	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R418	1-216-627-11	METAL CHIP	100	0.50%	1/10W	
R419	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	
R420	1-216-085-00	METAL GLAZE	33K	5%	1/10W	

<SWITCH>

SW-1	1-570-859-11	SWITCH, SLIDE

<VARIABLE RESISTOR>

RV101	1-230-504-11	RES, ADJ, CARBON 220 (DAR)
RV102	1-228-993-00	RES, ADJ, CARBON 4.7K (SUB HUE)
RV103	1-228-997-00	RES, ADJ, METAL GLAZE 100K (HUE)
RV104	1-228-997-00	RES, ADJ, METAL GLAZE 100K (SUB COLOR)
RV105	1-228-993-00	RES, ADJ, CARBON 4.7K (SUB PICTURE)

<THERMISTOR>

TH101	1-800-071-XX	THERMISTER

<CRYSTAL>

X101	1-567-307-11	OSCILLATOR, CRYSTAL
X102	1-567-131-00	OSCILLATOR, CRYSTAL

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*A-1135-693-A BB BOARD, COMPLETE
****

4-382-854-11 SCREW (M3X10), P, SW (+)

<CONNECTOR>

BB-1	*1-568-984-11	CONNECTOR, MALE 96P
BB-2	1-564-595-11	PLUG, CONNECTOR 14P

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
C402	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	
C404	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	
C405	1-126-101-11	ELECT	100MF	20%	16V	
C406	1-124-120-11	ELECT	220MF	20%	16V	
C407	1-126-101-11	ELECT	100MF	20%	16V	
C408	1-124-907-11	ELECT	10MF	20%	50V	
C409	1-126-101-11	ELECT	100MF	20%	16V	
C412	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	
C413	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	
C414	1-124-907-11	ELECT	10MF	20%	50V	
C415	1-126-101-11	ELECT	100MF	20%	16V	
C416	1-126-101-11	ELECT	100MF	20%	16V	
C417	1-124-120-11	ELECT	220MF	20%	16V	
C418	1-126-101-11	ELECT	100MF	20%	16V	
C419	1-126-101-11	ELECT	100MF	20%	16V	
C425	1-126-101-11	ELECT	100MF	20%	16V	
C450	1-163-113-00	CERAMIC CHIP	68PF	5%	50V	
C451	1-126-103-11	ELECT	470MF	20%	16V	
C453	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	
C501	1-124-907-11	ELECT	10MF	20%	50V	
C502	1-124-907-11	ELECT	10MF	20%	50V	
C503	1-124-477-11	ELECT	47MF	20%	16V	
C504	1-124-477-11	ELECT	47MF	20%	16V	
C505	1-124-927-11	ELECT	4.7MF	20%	50V	
C506	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	
C507	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	
C508	1-124-477-11	ELECT	47MF	20%	16V	
C509	1-163-239-11	CERAMIC CHIP	33PF	5%	50V	
C510	1-124-477-11	ELECT	47MF	20%	16V	
C511	1-126-103-11	ELECT	470MF	20%	16V	
C512	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	
C513	1-124-477-11	ELECT	47MF	20%	16V	
C514	1-124-927-11	ELECT	4.7MF	20%	50V	
C515	1-124-927-11	ELECT	4.7MF	20%	50V	
C516	1-124-927-11	ELECT	4.7MF	20%	50V	
C518	1-124-907-11	ELECT	10MF	20%	50V	
C519	1-124-907-11	ELECT	10MF	20%	50V	
C520	1-124-903-11	ELECT	1MF	20%	50V	
C521	1-124-907-11	ELECT	10MF	20%	50V	
C522	1-124-907-11	ELECT	10MF	20%	50V	
C523	1-163-833-00	CERAMIC CHIP	0.068MF		25V	
C524	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	
C525	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	
C526	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	
C527	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	
C528	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	
C529	1-124-916-11	ELECT	22MF	20%	50V	
C650	1-124-657-00	ELECT	10MF	20%	50V	
C651	1-136-169-00	FILM	0.22MF	5%	50V	
C652	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	
C653	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	
C654	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	
C655	1-124-910-11	ELECT	47MF	20%	50V	
C657	1-126-103-11	ELECT	470MF	20%	16V	
C658	1-124-122-11	ELECT	100MF	20%	50V	
C660	1-124-907-11	ELECT	10MF	20%	50V	
C692	1-124-122-11	ELECT	100MF	20%	50V	
C693	1-124-122-11	ELECT	100MF	20%	50V	
C694	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	
C695	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	
C696	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	
C697	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	
C700	1-124-657-00	ELECT	10MF	20%	50V	
C701	1-136-169-00	FILM	0.22MF	5%	50V	
C702	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	
C703	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	
C707	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	
C708	1-124-910-11	ELECT	47MF	20%	50V	
C710	1-124-122-11	ELECT	100MF	20%	50V	
C711	1-126-103-11	ELECT	470MF	20%	16V	
C713	1-124-907-11	ELECT	10MF	20%	50V	

BB

REF.NO.	PART NO.	DESCRIPTION			REMARK
C750	1-124-657-00	ELECT	10MF	20%	50V
C751	1-136-169-00	FILM	0.22MF	5%	50V
C752	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C753	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C754	1-126-101-11	ELECT	100MF	20%	16V
C755	1-126-101-11	ELECT	100MF	20%	16V
C756	1-126-101-11	ELECT	100MF	20%	16V
C757	1-124-910-11	ELECT	47MF	20%	50V
C759	1-124-122-11	ELECT	100MF	20%	50V
C760	1-126-103-11	ELECT	470MF	20%	16V
C762	1-124-916-11	ELECT	22MF	20%	50V
C763	1-124-907-11	ELECT	10MF	20%	50V
C914	1-126-101-11	ELECT	100MF	20%	16V
		<DIODE>			
D401	8-719-900-95	DIODE V09G			
D402	8-719-900-95	DIODE V09G			
D450	8-719-400-18	DIODE MA152WK			
D451	8-719-400-18	DIODE MA152WK			
D452	8-719-105-28	DIODE RD2.4M-B			
D501	8-719-400-18	DIODE MA152WK			
D502	8-719-400-18	DIODE MA152WK			
D503	8-719-400-18	DIODE MA152WK			
D504	8-719-105-82	DIODE RD5.1M-B2			
D505	8-719-911-19	DIODE 1SS119			
D506	8-719-105-82	DIODE RD5.1M-B2			
D507	8-719-105-82	DIODE RD5.1M-B2			
D508	8-719-105-82	DIODE RD5.1M-B2			
D509	8-719-105-82	DIODE RD5.1M-B2			
D510	8-719-105-82	DIODE RD5.1M-B2			
D511	8-719-105-82	DIODE RD5.1M-B2			
D512	8-719-105-82	DIODE RD5.1M-B2			
D513	8-719-105-82	DIODE RD5.1M-B2			
D514	8-719-105-82	DIODE RD5.1M-B2			
D515	8-719-105-82	DIODE RD5.1M-B2			
D516	8-719-106-80	DIODE RD13M-B2			
D518	8-719-106-80	DIODE RD13M-B2			
D520	8-719-105-82	DIODE RD5.1M-B2			
D521	8-719-105-82	DIODE RD5.1M-B2			
D522	8-719-106-80	DIODE RD13M-B2			
D523	8-719-106-80	DIODE RD13M-B2			
D524	8-719-105-82	DIODE RD5.1M-B2			
D525	8-719-105-28	DIODE RD2.4M-B			
D526	8-719-400-18	DIODE MA152WK			
D527	8-719-105-82	DIODE RD5.1M-B2			
D528	8-719-400-18	DIODE MA152WK			
D529	8-719-105-46	DIODE RD3.3M-B2			
D530	8-719-400-18	DIODE MA152WK			
D634	8-719-400-18	DIODE MA152WK			
D652	8-719-400-18	DIODE MA152WK			
D653	8-719-400-18	DIODE MA152WK			
		<IC>			
IC401	8-759-800-81	IC LA7016			
IC402	8-759-701-79	IC NJM7812FA			
IC403	8-759-929-65	IC LM7912CT			
IC404	8-759-300-71	IC HD14053BFP			
IC405	8-759-926-18	IC SN74HC157ANS			
IC407	8-759-926-18	IC SN74HC157ANS			
IC408	8-759-300-71	IC HD14053BFP			
IC409	8-759-300-71	IC HD14053BFP			
IC410	8-759-100-96	IC UPC4558G2			

REF.NO.	PART NO.	DESCRIPTION	REMARK
IC411	8-759-100-96	IC UPC4558G2	
IC412	8-759-145-27	IC UPC1406HA	
IC413	8-749-922-84	IC BX-6474	
IC414	8-749-922-83	IC BX-6473	
IC415	8-749-922-83	IC BX-6473	
IC416	8-749-922-83	IC BX-6473	
IC417	8-749-922-86	IC BX-7913	
IC418	8-749-922-85	IC BX-6475	
IC419	8-749-922-85	IC BX-6475	
IC420	8-749-922-85	IC BX-6475	
IC422	8-759-100-93	IC UPC393G2	
IC423	8-759-925-85	IC SN74HC32ANS	
IC424	8-759-100-93	IC UPC393G2	
		<JACK>	
J101	1-566-980-21	CONNECTOR, ROUND TYPE 4P	
J102	1-537-257-11	TERMINAL BOARD, INPUT/OUTPUT	
J103	1-537-403-11	TERMINAL BOARD, INPUT/OUTPUT	
		<COIL>	
L401	1-459-155-00	COIL (WITH CORE) 45UH	
L402	1-459-155-00	COIL (WITH CORE) 45UH	
L403	1-459-155-00	COIL (WITH CORE) 45UH	
L404	1-459-155-00	COIL (WITH CORE) 45UH	
L405	1-410-671-31	INDUCTOR 47UH	
L605	1-410-482-31	INDUCTOR 100UH	
L651	1-410-482-31	INDUCTOR 100UH	
		<TRANSISTOR>	
Q401	8-729-140-96	TRANSISTOR 2SD774-34	
Q402	8-729-140-97	TRANSISTOR 2SB734-34	
Q403	8-729-901-01	TRANSISTOR DTC144EK	
Q404	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q405	8-729-901-01	TRANSISTOR DTC144EK	
Q450	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q451	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q452	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q453	8-729-901-01	TRANSISTOR DTC144EK	
Q454	8-729-901-01	TRANSISTOR DTC144EK	
Q456	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q457	8-729-216-22	TRANSISTOR 2SA1162-G	
Q501	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q502	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q503	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q504	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q506	8-729-112-65	TRANSISTOR 2SA1462-Y33	
Q507	8-729-112-65	TRANSISTOR 2SA1462-Y33	
Q508	8-729-112-65	TRANSISTOR 2SA1462-Y33	
Q509	8-729-112-65	TRANSISTOR 2SA1462-Y33	
Q510	8-729-901-01	TRANSISTOR DTC144EK	
Q511	8-729-901-01	TRANSISTOR DTC144EK	
Q512	8-729-901-01	TRANSISTOR DTC144EK	
Q513	8-729-901-01	TRANSISTOR DTC144EK	
Q514	8-729-901-01	TRANSISTOR DTC144EK	
Q515	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q516	8-729-112-65	TRANSISTOR 2SA1462-Y33	
Q517	8-729-112-65	TRANSISTOR 2SA1462-Y33	
Q518	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q519	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q520	8-729-901-01	TRANSISTOR DTC144EK	

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q521	8-729-901-01	TRANSISTOR DTC144EK	
Q522	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q523	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q524	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q525	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q526	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q527	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q528	8-729-901-01	TRANSISTOR DTC144EK	
Q529	8-729-901-01	TRANSISTOR DTC144EK	
Q530	8-729-901-01	TRANSISTOR DTC144EK	
Q531	8-729-901-01	TRANSISTOR DTC144EK	
Q532	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q533	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q534	8-729-320-62	TRANSISTOR 2SD789-34	
Q535	8-729-901-01	TRANSISTOR DTC144EK	
Q536	8-729-901-01	TRANSISTOR DTC144EK	
Q537	8-729-901-01	TRANSISTOR DTC144EK	
Q538	8-729-901-01	TRANSISTOR DTC144EK	
Q539	8-729-901-01	TRANSISTOR DTC144EK	
Q540	8-729-901-01	TRANSISTOR DTC144EK	
Q541	8-729-901-01	TRANSISTOR DTC144EK	
Q542	8-729-901-01	TRANSISTOR DTC144EK	
Q543	8-729-901-01	TRANSISTOR DTC144EK	
Q544	8-729-901-01	TRANSISTOR DTC144EK	
Q545	8-729-216-22	TRANSISTOR 2SA1162-G	
Q546	8-729-901-01	TRANSISTOR DTC144EK	
Q547	8-729-216-22	TRANSISTOR 2SA1162-G	
Q548	8-729-901-01	TRANSISTOR DTC144EK	
Q549	8-729-901-01	TRANSISTOR DTC144EK	
Q550	8-729-901-01	TRANSISTOR DTC144EK	
Q551	8-729-901-01	TRANSISTOR DTC144EK	
Q552	8-729-901-01	TRANSISTOR DTC144EK	
Q553	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q650	8-729-116-05	TRANSISTOR 2SK160-K5	
Q651	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q652	8-729-112-65	TRANSISTOR 2SA1462-Y33	
Q653	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q654	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q656	8-729-901-01	TRANSISTOR DTC144EK	
Q700	8-729-116-05	TRANSISTOR 2SK160-K5	
Q701	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q702	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q703	8-729-112-65	TRANSISTOR 2SA1462-Y33	
Q704	8-729-923-06	TRANSISTOR FMW-8	
Q705	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q706	8-729-112-65	TRANSISTOR 2SA1462-Y33	
Q707	8-729-923-06	TRANSISTOR FMW-8	
Q708	8-729-112-65	TRANSISTOR 2SA1462-Y33	
Q709	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q710	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q741	8-729-901-01	TRANSISTOR DTC144EK	
Q750	8-729-116-05	TRANSISTOR 2SK160-K5	
Q751	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q752	8-729-112-65	TRANSISTOR 2SA1462-Y33	
Q753	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q754	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q755	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q756	8-729-901-01	TRANSISTOR DTC144EK	
Q757	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q800	8-729-230-49	TRANSISTOR 2SC2712-YG	

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
R401	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R403	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R404	1-216-693-11	METAL CHIP 56K 0.50% 1/10W	
R405	1-216-691-11	METAL CHIP 47K 0.50% 1/10W	
R450	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R451	1-216-077-00	METAL GLAZE 15K 5% 1/10W	
R452	1-216-037-00	METAL GLAZE 330 5% 1/10W	
R453	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R454	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R455	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R456	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R459	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R460	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R461	1-216-017-00	METAL GLAZE 47 5% 1/10W	
R462	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R463	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R464	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R466	1-216-037-00	METAL GLAZE 330 5% 1/10W	
R467	1-216-651-11	METAL CHIP 1K 0.50% 1/10W	
R468	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R469	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R470	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R471	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R472	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R473	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R474	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R501	1-216-624-11	METAL CHIP 75 0.50% 1/10W	
R502	1-216-121-00	METAL GLAZE 1M 5% 1/10W	
R503	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R504	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R505	1-216-055-00	METAL GLAZE 1.8K 5% 1/10W	
R506	1-216-624-11	METAL CHIP 75 0.50% 1/10W	
R507	1-216-121-00	METAL GLAZE 1M 5% 1/10W	
R508	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R509	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R510	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R511	1-216-077-00	METAL GLAZE 15K 5% 1/10W	
R512	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R513	1-216-077-00	METAL GLAZE 15K 5% 1/10W	
R514	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R516	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R518	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R519	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R520	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R521	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R522	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R523	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R524	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R525	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R526	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R527	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R528	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R529	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R530	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R531	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R532	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R533	1-216-659-11	METAL CHIP 2.2K 0.50% 1/10W	
R534	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R535	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R536	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R537	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R538	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R539	1-216-643-11	METAL CHIP 470 0.50% 1/10W	
R540	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R541	1-216-041-00	METAL GLAZE 470 5% 1/10W	

BB

REF.NO.	PART NO.	DESCRIPTION				REMARK
R542	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R543	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	
R544	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	
R545	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R546	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R547	1-216-631-11	METAL CHIP	150	0.50%	1/10W	
R548	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R549	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R550	1-216-047-00	METAL GLAZE	820	5%	1/10W	
R551	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R552	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R553	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R554	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R555	1-216-047-00	METAL GLAZE	820	5%	1/10W	
R556	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R557	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R558	1-216-691-11	METAL CHIP	47K	0.50%	1/10W	
R559	1-216-631-11	METAL CHIP	150	0.50%	1/10W	
R560	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R561	1-216-691-11	METAL CHIP	47K	0.50%	1/10W	
R562	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R563	1-216-035-00	METAL GLAZE	270	5%	1/10W	
R564	1-216-043-00	METAL GLAZE	560	5%	1/10W	
R565	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	
R566	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R567	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	
R568	1-216-643-11	METAL CHIP	470	0.50%	1/10W	
R569	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R570	1-216-624-11	METAL CHIP	75	0.50%	1/10W	
R571	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R572	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R573	1-216-643-11	METAL CHIP	470	0.50%	1/10W	
R574	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R575	1-216-643-11	METAL CHIP	470	0.50%	1/10W	
R576	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R577	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R578	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R579	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R580	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R581	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	
R582	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R583	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R584	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R585	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R586	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R587	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R588	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R589	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R590	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R591	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R592	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R593	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R594	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R595	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R596	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R597	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R598	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R599	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R600	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R601	1-216-631-11	METAL CHIP	150	0.50%	1/10W	
R602	1-216-631-11	METAL CHIP	150	0.50%	1/10W	
R603	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	
R604	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	
R605	1-216-025-00	METAL GLAZE	100	5%	1/10W	

REF.NO.	PART NO.	DESCRIPTION				REMARK
R606	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R607	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R608	1-216-075-00	METAL GLAZE	12K	5%	1/10W	
R609	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R610	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R611	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R612	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R613	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R614	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R615	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R616	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R617	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R618	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R619	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R620	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R621	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R622	1-216-448-11	METAL OXIDE	39	5%	2W	F
R623	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R624	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R625	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R626	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R627	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R628	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R629	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R630	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R631	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R632	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R633	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R634	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R635	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R636	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R637	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R638	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R639	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R640	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R641	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	
R642	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R643	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R650	1-216-624-11	METAL CHIP	75	0.50%	1/10W	
R651	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R652	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R653	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R654	1-216-121-00	METAL GLAZE	1M	5%	1/10W	
R655	1-216-627-11	METAL CHIP	100	0.50%	1/10W	
R656	1-216-627-11	METAL CHIP	100	0.50%	1/10W	
R657	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R658	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R659	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R660	1-216-624-11	METAL CHIP	75	0.50%	1/10W	
R661	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R663	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R664	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R665	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R686	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R688	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R700	1-216-624-11	METAL CHIP	75	0.50%	1/10W	
R701	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R702	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R703	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R704	1-216-121-00	METAL GLAZE	1M	5%	1/10W	
R705	1-216-627-11	METAL CHIP	100	0.50%	1/10W	
R706	1-216-627-11	METAL CHIP	100	0.50%	1/10W	
R707	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

REF.NO.	PART NO.	DESCRIPTION				REMARK
R708	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R709	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R710	1-216-627-11	METAL CHIP	100	0.50%	1/10W	
R711	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R712	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R713	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R714	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R715	1-216-627-11	METAL CHIP	100	0.50%	1/10W	
R716	1-216-627-11	METAL CHIP	100	0.50%	1/10W	
R717	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R718	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R719	1-216-627-11	METAL CHIP	100	0.50%	1/10W	
R720	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W	
R721	1-216-627-11	METAL CHIP	100	0.50%	1/10W	
R722	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R723	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R724	1-216-624-11	METAL CHIP	75	0.50%	1/10W	
R725	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R727	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R728	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R729	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R750	1-216-624-11	METAL CHIP	75	0.50%	1/10W	
R751	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R752	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R753	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R755	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R756	1-216-121-00	METAL GLAZE	1M	5%	1/10W	
R757	1-216-627-11	METAL CHIP	100	0.50%	1/10W	
R758	1-216-627-11	METAL CHIP	100	0.50%	1/10W	
R759	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R760	1-216-665-11	METAL CHIP	3.9K	0.50%	1/10W	
R761	1-216-643-11	METAL CHIP	470	0.50%	1/10W	
R762	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	
R763	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R764	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R765	1-216-624-11	METAL CHIP	75	0.50%	1/10W	
R766	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R768	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R769	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R770	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R791	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R836	1-216-631-11	METAL CHIP	150	0.50%	1/10W	
R837	1-216-631-11	METAL CHIP	150	0.50%	1/10W	
R900	1-216-049-00	METAL GLAZE	1K	5%	1/10W	

<RELAY>

RL401	1-515-757-11	RELAY
RL402	1-515-757-11	RELAY
RL403	1-515-757-11	RELAY

<SWITCH>

SW101 1-570-859-11 SWITCH, SLIDE

****

*A-1190-195-A PB BOARD, COMPLETE
****

<CONNECTOR>

CN241 *1-564-506-11 PLUG, CONNECTOR 3P

<TRANSFORMER>

REF.NO.	PART NO.	DESCRIPTION	REMARK
FBT10⚠	1-453-166-11	TRANSFORMER ASSY, FLYBACK (NX-3030B4)	
FBT11⚠	1-453-166-11	TRANSFORMER ASSY, FLYBACK (NX-3030B4)	

<NEON LAMP>

NL10	1-519-108-XX	LAMP, NEON
NL11	1-519-108-XX	LAMP, NEON

****

*A-1190-196-A PC BOARD, COMPLETE
****

<TRANSISTOR>

Q1 8-729-820-71 TRANSISTOR 2SC3998CA

****

*A-1195-081-A PA BOARD, COMPLETE
****

4-382-854-11 SCREW (M3X10), P, SW (+)

<CAPACITOR>

C1	1-124-903-11	ELECT	1MF	20%	50V
C2	1-124-903-11	ELECT	1MF	20%	50V
C3	1-124-927-11	ELECT	4.7MF	20%	50V
C4	1-124-927-11	ELECT	4.7MF	20%	50V
C5	1-124-927-11	ELECT	4.7MF	20%	50V
C6	1-124-927-11	ELECT	4.7MF	20%	50V
C7	1-124-907-11	ELECT	10MF	20%	50V
C8	1-130-471-00	FILM	0.001MF	5%	50V
C9	1-124-034-51	ELECT	33MF	20%	16V
C10	1-124-925-11	ELECT	2.2MF	20%	50V
C11	1-136-165-00	FILM	0.1MF	5%	50V
C12	1-124-907-11	ELECT	10MF	20%	50V
C13	1-136-169-00	FILM	0.22MF	5%	50V
C14	1-124-907-11	ELECT	10MF	20%	50V
C15	1-124-119-00	ELECT	330MF	20%	16V
C16	1-102-973-00	CERAMIC	100PF	5%	50V
C17	1-136-165-00	FILM	0.1MF	5%	50V
C18	1-136-165-00	FILM	0.1MF	5%	50V
C19	1-136-165-00	FILM	0.1MF	5%	50V
C20	1-136-165-00	FILM	0.1MF	5%	50V
C21	1-101-004-00	CERAMIC	0.01MF		50V
C22	1-102-973-00	CERAMIC	100PF	5%	50V
C23	1-124-907-11	ELECT	10MF	20%	50V
C24	1-124-907-11	ELECT	10MF	20%	50V
C25	1-136-169-00	FILM	0.22MF	5%	50V
C26	1-102-978-00	CERAMIC	220PF	5%	50V
C27	1-124-907-11	ELECT	10MF	20%	50V
C28	1-124-903-11	ELECT	1MF	20%	50V
C29	1-124-907-11	ELECT	10MF	20%	50V
C30	1-101-004-00	CERAMIC	0.01MF		50V
C31	1-101-004-00	CERAMIC	0.01MF		50V
C32	1-102-973-00	CERAMIC	100PF	5%	50V
C33	1-102-973-00	CERAMIC	100PF	5%	50V
C34	1-102-973-00	CERAMIC	100PF	5%	50V
C35	1-124-119-00	ELECT	330MF	20%	16V
C36	1-137-364-11	FILM	0.001MF	5%	50V
C37	1-108-704-11	MYLAR	0.1MF	10%	200V
C38	1-124-903-11	ELECT	1MF	20%	50V

PA

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REF.NO.	PART NO.	DESCRIPTION	REMARK
C39	1-124-903-11	ELECT 1MF 20% 50V	
C40	1-137-366-11	FILM 0.0022MF 5% 50V	
C41	1-126-600-11	ELECT 100MF 20% 160V	
C42	⚠1-136-722-11	FILM 0.008MF 3% 1.6KV	
C43	1-129-718-00	FILM 0.022MF 10% 630V	
C45	1-137-364-11	FILM 0.001MF 5% 50V	
C46	1-126-101-11	ELECT 100MF 20% 16V	
C47	1-124-903-11	ELECT 1MF 20% 50V	
C49	1-136-561-11	FILM 0.0068MF 10% 630V	
C50	1-137-364-11	FILM 0.001MF 5% 50V	
C51	1-126-600-11	ELECT 100MF 20% 160V	
C52	1-126-600-11	ELECT 100MF 20% 160V	
C53	1-102-030-00	CERAMIC 330PF 10% 500V	
C54	⚠1-136-729-11	FILM 1.5MF 5% 400V	
C55	1-124-903-11	ELECT 1MF 20% 50V	
C56	1-108-692-11	MYLAR 0.01MF 10% 200V	
C57	1-108-704-11	MYLAR 0.1MF 10% 200V	
C58	1-124-477-11	ELECT 47MF 20% 16V	
C59	1-136-165-00	FILM 0.1MF 5% 50V	
C60	1-101-004-00	CERAMIC 0.01MF 50V	
C61	1-101-004-00	CERAMIC 0.01MF 50V	
C62	1-136-165-00	FILM 0.1MF 5% 50V	
C63	1-136-165-00	FILM 0.1MF 5% 50V	
C65	1-136-103-00	FILM 0.1MF 5% 200V	
C67	1-101-004-00	CERAMIC 0.01MF 50V	
C68	1-101-004-00	CERAMIC 0.01MF 50V	
C70	1-101-004-00	CERAMIC 0.01MF 50V	
C71	1-102-973-00	CERAMIC 100PF 5% 50V	
C72	1-102-973-00	CERAMIC 100PF 5% 50V	
C73	1-126-101-11	ELECT 100MF 20% 16V	
C74	1-124-478-11	ELECT 100MF 20% 25V	
C75	1-124-563-11	ELECT 2200MF 20% 25V	

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
CN281	*1-564-518-11	PLUG, CONNECTOR 3P	
CN282	*1-564-520-11	PLUG, CONNECTOR 5P	
CN283	*1-564-526-11	PLUG, CONNECTOR 11P	
CN284	*1-564-528-11	PLUG, CONNECTOR 13P	
CN285	1-564-523-11	PLUG, CONNECTOR 8P	
CN286	*1-506-348-XX	PIN, CONNECTOR 6P	
CN287	*1-564-521-11	PLUG, CONNECTOR 6P	
CN288	*1-564-518-11	PLUG, CONNECTOR 3P	
CN289	1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P	
CN290	1-506-348-XX	PIN, CONNECTOR 4P	

<DIODE>

REF.NO.	PART NO.	DESCRIPTION	REMARK
D1	8-719-911-19	DIODE 1SS119	
D2	8-719-911-19	DIODE 1SS119	
D3	8-719-911-19	DIODE 1SS119	
D4	8-719-911-19	DIODE 1SS119	
D5	8-719-109-85	DIODE RD5.1ESB2	
D6	8-719-911-19	DIODE 1SS119	
D7	8-719-110-41	DIODE RD15ESB2	
D8	8-719-110-36	DIODE RD13ESB2	
D9	8-719-911-19	DIODE 1SS119	
D10	8-719-109-85	DIODE RD5.1ESB2	
D11	8-719-109-66	DIODE RD3.3ESB2	
D12	8-719-109-85	DIODE RD5.1ESB2	
D13	8-719-911-19	DIODE 1SS119	
D14	8-719-911-19	DIODE 1SS119	
D15	8-719-911-19	DIODE 1SS119	
D16	8-719-110-36	DIODE RD13ESB2	
D17	8-719-945-81	DIODE ERC06-15SA	
D18	8-719-911-19	DIODE 1SS119	
D19	8-719-945-81	DIODE ERC06-15SA	
D20	8-719-911-19	DIODE 1SS119	
D21	8-719-911-19	DIODE 1SS119	
D22	8-719-110-36	DIODE RD13ESB2	
D23	8-719-920-67	DIODE ERC91-02	
D24	8-719-911-19	DIODE 1SS119	
D25	8-719-911-19	DIODE 1SS119	
D26	8-719-920-67	DIODE ERC91-02	
D27	8-719-911-19	DIODE 1SS119	
D28	8-719-911-19	DIODE 1SS119	
D29	8-719-911-19	DIODE 1SS119	
D30	8-719-110-78	DIODE RD33ESB2	
D31	8-719-911-19	DIODE 1SS119	
D32	8-719-900-95	DIODE V09G	
D33	8-719-911-19	DIODE 1SS119	
D34	8-719-920-67	DIODE ERC91-02	
D35	8-719-911-19	DIODE 1SS119	
D36	8-719-110-36	DIODE RD13ESB2	

<FERRITE BEAD>

REF.NO.	PART NO.	DESCRIPTION	REMARK
FB1	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
FB2	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
FB3	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	

<IC>

REF.NO.	PART NO.	DESCRIPTION	REMARK
IC1	8-759-503-91	IC TL082ACP	
IC2	8-759-103-93	IC UPC393C	
IC3	8-759-103-93	IC UPC393C	
IC4	8-759-103-93	IC UPC393C	
IC5	8-759-701-79	IC NJM7812FA	
IC6	8-759-929-65	IC LM7912CT	
IC7	8-759-240-40	IC TC4040BP	
IC8	8-759-045-72	IC MC14572UBCP	
IC9	8-759-140-11	IC UPD4011BC	
IC10	8-759-040-01	IC MC14001BCP	
IC11	8-759-503-91	IC TL082ACP	
IC12	8-759-103-93	IC UPC393C	
IC13	8-759-908-15	IC TL431CLP	

<COIL>

REF.NO.	PART NO.	DESCRIPTION	REMARK
L1	1-409-543-11	COIL, CHOKE 420UH	
L2	1-409-543-11	COIL, CHOKE 420UH	
L3	1-459-614-11	COIL, CHOKE 90UH	
L4	1-459-614-11	COIL, CHOKE 90UH	
L5	1-459-155-00	COIL (WITH CORE) 45UH	
L6	1-459-155-00	COIL (WITH CORE) 45UH	
L7	1-412-521-31	INDUCTOR 4.7UH	
L8	1-412-521-31	INDUCTOR 4.7UH	

<NEON LAMP>

REF.NO.	PART NO.	DESCRIPTION	REMARK
NL1	1-519-108-XX	LAMP, NEON	

<TRANSISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q1	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q2	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q3	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q4	8-729-119-76	TRANSISTOR 2SA1175-HFE	

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REF.NO.	PART NO.	DESCRIPTION				REMARK
Q5	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q6	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q7	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q8	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q9	8-729-140-96	TRANSISTOR 2SD774-34				
Q10	8-729-140-97	TRANSISTOR 2SB734-34				
Q11	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q12	8-729-900-65	TRANSISTOR DTA144ES				
Q13	8-729-900-89	TRANSISTOR DTC144ES				
Q15	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q16	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q17	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q18	8-729-804-48	TRANSISTOR 2SC3675				
Q19	8-729-024-38	TRANSISTOR IRFIP250				
Q20	8-729-143-42	TRANSISTOR 2SK929				
Q21	8-729-207-89	TRANSISTOR 2SA1358-Y				
Q22	8-729-119-80	TRANSISTOR 2SC2688-LK				
		<RESISTOR>				
⧓R1	⚠	METAL			1/4W	
R2	1-249-433-11	CARBON	22K	5%	1/4W	
R3	1-249-439-11	CARBON	68K	5%	1/4W	
⧓R4	⚠	METAL			1/4W	
R5	1-249-433-11	CARBON	22K	5%	1/4W	
R6	1-249-439-11	CARBON	68K	5%	1/4W	
R7	1-249-433-11	CARBON	22K	5%	1/4W	
R8	1-249-433-11	CARBON	22K	5%	1/4W	
R9	1-249-423-11	CARBON	3.3K	5%	1/4W	
R10	1-249-429-11	CARBON	10K	5%	1/4W	
R12	1-249-429-11	CARBON	10K	5%	1/4W	
R13	1-249-429-11	CARBON	10K	5%	1/4W	
R14	1-249-429-11	CARBON	10K	5%	1/4W	
R15	1-249-433-11	CARBON	22K	5%	1/4W	
R16	1-249-425-11	CARBON	4.7K	5%	1/4W	
R17	1-247-807-31	CARBON	100	5%	1/4W	
R18	1-249-429-11	CARBON	10K	5%	1/4W	
R19	1-249-429-11	CARBON	10K	5%	1/4W	
R20	1-249-433-11	CARBON	22K	5%	1/4W	
R21	1-249-441-11	CARBON	100K	5%	1/4W	
R22	1-215-463-00	METAL	56K	1%	1/4W	
R23	1-215-455-00	METAL	27K	1%	1/4W	
R24	1-249-429-11	CARBON	10K	5%	1/4W	
R26	1-249-417-11	CARBON	1K	5%	1/4W	
R27	1-249-429-11	CARBON	10K	5%	1/4W	
R28	1-215-423-00	METAL	1.2K	1%	1/4W	
⧓R29	⚠	METAL			1/4W	
⧓R30	⚠	METAL			1/4W	
R31	1-249-436-11	CARBON	39K	5%	1/4W	
R32	1-215-473-00	METAL	150K	1%	1/4W	
⧓R33	⚠	METAL			1/4W	
⧓R34	⚠	METAL			1/4W	
R35	1-249-417-11	CARBON	1K	5%	1/4W	
R36	1-249-423-11	CARBON	3.3K	5%	1/4W	
R37	1-249-429-11	CARBON	10K	5%	1/4W	
R38	1-249-429-11	CARBON	10K	5%	1/4W	
R39	1-249-429-11	CARBON	10K	5%	1/4W	
R41	1-249-431-11	CARBON	15K	5%	1/4W	
R42	1-249-417-11	CARBON	1K	5%	1/4W	
R43	1-215-461-00	METAL	47K	1%	1/4W	
R44	1-215-432-00	METAL	3K	1%	1/4W	
R45	1-215-432-00	METAL	3K	1%	1/4W	
R46	1-215-432-00	METAL	3K	1%	1/4W	
R47	1-215-432-00	METAL	3K	1%	1/4W	
R48	1-249-417-11	CARBON	1K	5%	1/4W	

REF.NO.	PART NO.	DESCRIPTION				REMARK
R49	1-249-417-11	CARBON	1K	5%	1/4W	
R50	1-249-429-11	CARBON	10K	5%	1/4W	
R51	1-249-423-11	CARBON	3.3K	5%	1/4W	
R52	1-249-423-11	CARBON	3.3K	5%	1/4W	
R53	1-249-417-11	CARBON	1K	5%	1/4W	
R54	1-249-417-11	CARBON	1K	5%	1/4W	
R55	1-249-423-11	CARBON	3.3K	5%	1/4W	
R56	1-247-895-00	CARBON	470K	5%	1/4W	
R57	1-249-417-11	CARBON	1K	5%	1/4W	
R58	1-249-437-11	CARBON	47K	5%	1/4W	
R59	1-247-903-00	CARBON	1M	5%	1/4W	
R61	1-249-417-11	CARBON	1K	5%	1/4W	
R62	1-247-807-31	CARBON	100	5%	1/4W	
R63	1-249-411-11	CARBON	330	5%	1/4W	
R64	1-215-456-00	METAL	30K	1%	1/4W	
R65	1-215-445-00	METAL	10K	1%	1/4W	
R66	1-215-447-00	METAL	12K	1%	1/4W	
R67	1-247-903-00	CARBON	1M	5%	1/4W	
R68	1-249-417-11	CARBON	1K	5%	1/4W	
R69	1-215-455-00	METAL	27K	1%	1/4W	
R71	1-249-429-11	CARBON	10K	5%	1/4W	
R72	1-247-807-31	CARBON	100	5%	1/4W	
R73	1-249-423-11	CARBON	3.3K	5%	1/4W	
R74	1-249-417-11	CARBON	1K	5%	1/4W	
R75	1-249-417-11	CARBON	1K	5%	1/4W	
R76	1-249-417-11	CARBON	1K	5%	1/4W	
R77	1-247-720-11	CARBON	3.9K	5%	1/4W	F
R78	1-249-431-11	CARBON	15K	5%	1/4W	
R79	1-249-431-11	CARBON	15K	5%	1/4W	
R80	1-249-417-11	CARBON	1K	5%	1/4W	
R81	1-249-441-11	CARBON	100K	5%	1/4W	
R82	1-249-441-11	CARBON	100K	5%	1/4W	
R83	1-249-422-11	CARBON	2.7K	5%	1/4W	
R84	1-249-431-11	CARBON	15K	5%	1/4W	
R85	1-215-892-11	METAL OXIDE	1K	5%	2W	F
R86	1-215-921-11	METAL OXIDE	4.7K	5%	3W	F
R88	1-249-441-11	CARBON	100K	5%	1/4W	
R89	1-215-905-11	METAL OXIDE	10	5%	3W	F
R90	1-215-895-11	METAL OXIDE	3.3K	5%	2W	F
R91	1-215-895-11	METAL OXIDE	3.3K	5%	2W	F
R92	1-215-870-11	METAL OXIDE	1.5K	5%	1W	F
R93	1-215-895-11	METAL OXIDE	3.3K	5%	2W	F
R94	1-215-863-11	METAL OXIDE	100	5%	1W	F
R95	1-215-461-00	METAL	47K	1%	1/4W	
R96	1-249-437-11	CARBON	47K	5%	1/4W	
R97	1-249-433-11	CARBON	22K	5%	1/4W	
R98	1-215-863-11	METAL OXIDE	100	5%	1W	F
R99	1-247-725-11	CARBON	10K	5%	1/4W	F
R101	1-247-807-31	CARBON	100	5%	1/4W	
R102	1-249-441-11	CARBON	100K	5%	1/4W	
R103	1-249-417-11	CARBON	1K	5%	1/4W	
R104	1-249-441-11	CARBON	100K	5%	1/4W	
R105	1-249-429-11	CARBON	10K	5%	1/4W	
R106	1-249-425-11	CARBON	4.7K	5%	1/4W	
R107	1-249-433-11	CARBON	22K	5%	1/4W	
R108	1-249-441-11	CARBON	100K	5%	1/4W	
R109	1-249-437-11	CARBON	47K	5%	1/4W	
R110	1-249-441-11	CARBON	100K	5%	1/4W	
R111	1-249-437-11	CARBON	47K	5%	1/4W	
R116	1-214-784-00	METAL	200K	1%	1/4W	
R117	1-247-725-11	CARBON	10K	5%	1/4W	F
R118	1-202-726-00	SOLID	3.9M	20%	1/2W	
R121	1-215-475-00	METAL	180K	1%	1/4W	

PA **QM**

RC

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REF.NO.	PART NO.	DESCRIPTION				REMARK
R122	1-215-475-00	METAL	180K	1%	1/4W	
R124	1-249-425-11	CARBON	4.7K	5%	1/4W	
R125	1-247-807-31	CARBON	100	5%	1/4W	
R126	1-249-429-11	CARBON	10K	5%	1/4W	
R127	1-247-807-31	CARBON	100	5%	1/4W	
R128	1-247-807-31	CARBON	100	5%	1/4W	
☒R131 ⚠	[illegible]	METAL	[illegible]	[illegible]	1/4W	
☒R132 ⚠	[illegible]	METAL	[illegible]	[illegible]	1/4W	
R133	1-215-905-11	METAL OXIDE	10	5%	3W	F
R134	1-215-905-11	METAL OXIDE	10	5%	3W	F
R135	1-215-905-11	METAL OXIDE	10	5%	3W	F
R136	1-202-726-00	SOLID	3.9M	20%	1/2W	
R137	1-249-401-11	CARBON	47	5%	1/4W	F
R138	1-249-417-11	CARBON	1K	5%	1/4W	
R139	1-247-807-31	CARBON	100	5%	1/4W	
R140	1-247-807-31	CARBON	100	5%	1/4W	
R141	1-247-807-31	CARBON	100	5%	1/4W	
R142	1-249-417-11	CARBON	1K	5%	1/4W	
R143	1-215-432-00	METAL	3K	1%	1/4W	
R144	1-215-432-00	METAL	3K	1%	1/4W	

<TRANSISTOR>

T1	1-437-144-11	TRANSFORMER, FERRITE (HDT)

<CRYSTAL>

X1	1-578-768-11	VIBLATOR, CERAMIC

****

*A-1270-304-A QM BOARD, COMPLETE
****

<SOCKET>

J7	*1-526-575-00	SOCKET, PLUG 1P
J8	*1-526-575-00	SOCKET, PLUG 1P
J9	*1-526-575-00	SOCKET, PLUG 1P

<CONNECTOR>

QM-1	*1-568-985-11	CONNECTOR, FEMALE 64P
QM-2	*1-564-515-11	PLUG, CONNECTOR 12P
QM-3	*1-564-509-11	PLUG, CONNECTOR 6P
QM-4	*1-564-508-11	PLUG, CONNECTOR 5P

****

*1-631-359-11 RC BOARD
****
(INCLUDING RCA,RCB,RCC,RCD BOARD)

<CAPACITOR>

C1	1-163-125-00	CERAMIC CHIP 220PF		5%	50V
C2	1-163-125-00	CERAMIC CHIP 220PF		5%	50V
C3	1-164-232-11	CERAMIC CHIP 0.01MF		10%	50V
C4	1-164-232-11	CERAMIC CHIP 0.01MF		10%	50V
C5	1-164-232-11	CERAMIC CHIP 0.01MF		10%	50V
C6	1-126-967-11	ELECT	47MF	20%	6.3V

<DIODE>

D1	8-719-901-44	DIODE SLP144B
D4	8-719-801-48	DIODE 1SS193
D6	8-719-105-51	DIODE RD3.6M-B1

REF.NO.	PART NO.	DESCRIPTION	REMARK

<IC>

IC1	8-759-634-91	IC M50461-157SP

<COIL>

L1	1-408-789-21	INDUCTOR CHIP 100UH

<TRANSISTOR>

Q1	8-729-216-22	TRANSISTOR 2SA1162-G
Q2	8-729-230-49	TRANSISTOR 2SC2712-YG
Q5	8-729-230-49	TRANSISTOR 2SC2712-YG
Q6	8-729-216-22	TRANSISTOR 2SA1162-G
Q7	8-729-230-49	TRANSISTOR 2SC2712-YG
Q8	8-729-101-07	TRANSISTOR 2SB798-DL
Q9	8-729-230-49	TRANSISTOR 2SC2712-YG

<RESISTOR>

R1	1-216-017-00	METAL GLAZE	47	5%	1/10W
R2	1-216-041-00	METAL GLAZE	470	5%	1/10W
R3	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R4	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R5	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W
R6	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R10	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R11	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R12	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R13	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R14	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R15	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R16	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R17	1-216-028-00	METAL GLAZE	130	5%	1/10W
R18	1-216-028-00	METAL GLAZE	130	5%	1/10W
R19	1-216-028-00	METAL GLAZE	130	5%	1/10W
R20	1-216-028-00	METAL GLAZE	130	5%	1/10W
R21	1-216-028-00	METAL GLAZE	130	5%	1/10W
R22	1-216-028-00	METAL GLAZE	130	5%	1/10W
R23	1-216-028-00	METAL GLAZE	130	5%	1/10W
R24	1-216-028-00	METAL GLAZE	130	5%	1/10W
R25	1-216-028-00	METAL GLAZE	130	5%	1/10W
R26	1-216-028-00	METAL GLAZE	130	5%	1/10W
R27	1-216-028-00	METAL GLAZE	130	5%	1/10W
R28	1-216-028-00	METAL GLAZE	130	5%	1/10W
R29	1-216-028-00	METAL GLAZE	130	5%	1/10W
R30	1-216-028-00	METAL GLAZE	130	5%	1/10W

<CONNECTOR>

RC-1	*1-564-519-11	PLUG, CONNECTOR 4P

<SWITCH>

S1	1-553-856-00	SWITCH, KEY BOARD (LIGHT)

<CRYSTAL>

X1	1-527-476-00	OSCILLATOR, CERAMIC

****

RCA **RCB** **RCC** **RCD**
CFB **CFA** **CA(RG)**

*1-631-356-11 RCA BOARD
****

<DIODE>

REF.NO.	PART NO.	DESCRIPTION	REMARK
D5	8-719-938-67	DIODE GL3EG8	
D6	8-719-938-67	DIODE GL3EG8	
D7	8-719-938-67	DIODE GL3EG8	
D8	8-719-938-67	DIODE GL3EG8	
D9	8-719-938-67	DIODE GL3EG8	

****

*1-631-357-11 RCB BOARD
****

<DIODE>

REF.NO.	PART NO.	DESCRIPTION	REMARK
D10	8-719-938-67	DIODE GL3EG8	
D11	8-719-938-67	DIODE GL3EG8	
D12	8-719-938-67	DIODE GL3EG8	
D13	8-719-938-67	DIODE GL3EG8	
D14	8-719-938-67	DIODE GL3EG8	

****

*1-631-358-11 RCC BOARD
****

<DIODE>

REF.NO.	PART NO.	DESCRIPTION	REMARK
D15	8-719-938-67	DIODE GL3EG8	
D16	8-719-938-67	DIODE GL3EG8	

****

*1-631-493-11 RCD BOARD
****

<DIODE>

REF.NO.	PART NO.	DESCRIPTION	REMARK
D1	8-719-938-67	DIODE GL3EG8	

****

*A-1331-162-A CFB BOARD, COMPLETE
****

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
C201	1-101-821-00	CERAMIC 0.0022MF 500V	
C202	1-101-821-00	CERAMIC 0.0022MF 500V	
C203	1-101-821-00	CERAMIC 0.0022MF 500V	
C204	1-101-821-00	CERAMIC 0.0022MF 500V	
C205	1-101-821-00	CERAMIC 0.0022MF 500V	

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
CFB-1	*1-564-528-11	PLUG, CONNECTOR 13P	
CFB-2	*1-564-514-11	PLUG, CONNECTOR 11P	
CFB-3	1-564-505-11	PLUG, CONNECTOR 2P	
CFB-4	*1-564-519-11	PLUG, CONNECTOR 4P	
CFB-5	*1-564-507-11	PLUG, CONNECTOR 4P	

<FILTER>

REF.NO.	PART NO.	DESCRIPTION	REMARK
FL201	1-236-071-11	ENCAPSULATED COMPONENT	
FL202	1-236-164-11	ENCAPSULATED COMPONENT	
FL203	1-236-071-11	ENCAPSULATED COMPONENT	
FL204	1-236-071-11	ENCAPSULATED COMPONENT	
FL205	1-236-071-11	ENCAPSULATED COMPONENT	
FL206	1-236-071-11	ENCAPSULATED COMPONENT	
FL207	1-236-164-11	ENCAPSULATED COMPONENT	
FL208	1-236-164-11	ENCAPSULATED COMPONENT	
FL209	1-236-164-11	ENCAPSULATED COMPONENT	
FL210	1-236-164-11	ENCAPSULATED COMPONENT	

****

*A-1331-163-A CFA BOARD, COMPLETE
****

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
CFA-1	*1-575-136-11	CONNECTOR ASSY, FLAT CABLE	
CFA-2	*1-575-136-11	CONNECTOR ASSY, FLAT CABLE	

<FILTER>

REF.NO.	PART NO.	DESCRIPTION	REMARK
FL1	1-236-164-11	ENCAPSULATED COMPONENT	
FL2	1-236-164-11	ENCAPSULATED COMPONENT	
FL3	1-236-164-11	ENCAPSULATED COMPONENT	
FL4	1-236-101-11	ENCAPSULATED COMPONENT	
FL5	1-236-164-11	ENCAPSULATED COMPONENT	
FL6	1-236-101-11	ENCAPSULATED COMPONENT	
FL7	1-236-164-11	ENCAPSULATED COMPONENT	
FL8	1-236-101-11	ENCAPSULATED COMPONENT	
FL9	1-236-164-11	ENCAPSULATED COMPONENT	
FL10	1-236-164-11	ENCAPSULATED COMPONENT	
FL11	1-236-164-11	ENCAPSULATED COMPONENT	
FL12	1-236-164-11	ENCAPSULATED COMPONENT	
FL13	1-236-164-11	ENCAPSULATED COMPONENT	
FL14	1-236-164-11	ENCAPSULATED COMPONENT	
FL15	1-236-164-11	ENCAPSULATED COMPONENT	
FL16	1-236-164-11	ENCAPSULATED COMPONENT	
FL17	1-236-164-11	ENCAPSULATED COMPONENT	
FL18	1-236-164-11	ENCAPSULATED COMPONENT	
FL19	1-236-164-11	ENCAPSULATED COMPONENT	
FL20	1-236-164-11	ENCAPSULATED COMPONENT	
FL21	1-236-164-11	ENCAPSULATED COMPONENT	
FL22	1-236-101-11	ENCAPSULATED COMPONENT	
FL23	1-236-101-11	ENCAPSULATED COMPONENT	
FL24	1-236-164-11	ENCAPSULATED COMPONENT	

****

*A-1335-032-A CA (RG) BOARD, COMPLETE
****

REF.NO.	PART NO.	DESCRIPTION	REMARK
	*4-363-404-00	HOLDER, IC	
	4-382-854-11	SCREW (M3X10), P, SW (+)	

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
C1	1-124-907-11	ELECT 10MF 20% 50V	
C2	1-126-101-11	ELECT 100MF 20% 16V	
C3	1-124-907-11	ELECT 10MF 20% 50V	
C4	1-126-101-11	ELECT 100MF 20% 16V	
C5	1-124-916-11	ELECT 22MF 20% 50V	
C6	1-126-101-11	ELECT 100MF 20% 16V	
C7	1-124-916-11	ELECT 22MF 20% 50V	
C8	1-102-820-00	CERAMIC 330PF 5% 50V	
C9	1-101-880-00	CERAMIC 47PF 5% 50V	
C10	1-101-004-00	CERAMIC 0.01MF 50V	
C11	1-101-004-00	CERAMIC 0.01MF 50V	

CA(RG)

REF.NO.	PART NO.	DESCRIPTION			REMARK
C12	1-101-004-00	CERAMIC	0.01MF		50V
C13	1-101-004-00	CERAMIC	0.01MF		50V
C14	1-124-916-11	ELECT	22MF	20%	50V
C16	1-124-916-11	ELECT	22MF	20%	50V
C17	1-136-165-00	FILM	0.1MF	5%	50V
C18	1-136-165-00	FILM	0.1MF	5%	50V
C19	1-136-165-00	FILM	0.1MF	5%	50V
C20	1-136-165-00	FILM	0.1MF	5%	50V
C21	1-124-916-11	ELECT	22MF	20%	50V
C22	1-126-103-11	ELECT	470MF	20%	16V
C23	1-136-171-00	FILM	0.33MF	5%	50V
C24	1-102-038-00	CERAMIC	0.001MF		500V
C25	1-124-907-11	ELECT	10MF	20%	50V
C26	1-126-101-11	ELECT	100MF	20%	16V
C101	1-124-282-00	ELECT	22MF	20%	16V
C102	1-124-477-11	ELECT	47MF	20%	16V
C103	1-126-101-11	ELECT	100MF	20%	16V
C104	1-126-101-11	ELECT	100MF	20%	16V
C105	1-124-916-11	ELECT	22MF	20%	50V
C106	1-102-973-00	CERAMIC	100PF	5%	50V
C107	1-102-976-00	CERAMIC	180PF	5%	50V
C110	1-124-798-11	ELECT	1MF	20%	160V
C111	1-124-916-11	ELECT	22MF	20%	50V
C112	1-136-165-00	FILM	0.1MF	5%	50V
C113	1-136-165-00	FILM	0.1MF	5%	50V
C114	1-126-174-51	ELECT	10MF	20%	350V
C115	1-102-038-00	CERAMIC	0.001MF		500V
C116	1-102-050-00	CERAMIC	0.01MF		500V
C117	1-124-768-11	ELECT	4.7MF	20%	50V
C118	1-101-004-00	CERAMIC	0.01MF		50V
C119	1-136-165-00	FILM	0.1MF	5%	50V
C120	1-124-903-11	ELECT	1MF	20%	50V
C121	1-124-916-11	ELECT	22MF	20%	50V
C122	1-124-916-11	ELECT	22MF	20%	50V
C123	1-102-050-00	CERAMIC	0.01MF		500V
C125	1-124-916-11	ELECT	22MF	20%	50V
C126	1-101-004-00	CERAMIC	0.01MF		50V
C127	1-101-004-00	CERAMIC	0.01MF		50V
C201	1-124-282-00	ELECT	22MF	20%	16V
C202	1-124-916-11	ELECT	22MF	20%	50V
C203	1-126-101-11	ELECT	100MF	20%	16V
C204	1-126-101-11	ELECT	100MF	20%	16V
C205	1-124-916-11	ELECT	22MF	20%	50V
C206	1-102-973-00	CERAMIC	100PF	5%	50V
C207	1-102-976-00	CERAMIC	180PF	5%	50V
C210	1-124-798-11	ELECT	1MF	20%	160V
C211	1-124-916-11	ELECT	22MF	20%	50V
C212	1-136-165-00	FILM	0.1MF	5%	50V
C213	1-136-165-00	FILM	0.1MF	5%	50V
C214	1-126-174-51	ELECT	10MF	20%	350V
C215	1-102-038-00	CERAMIC	0.001MF		500V
C216	1-102-050-00	CERAMIC	0.01MF		500V
C217	1-124-768-11	ELECT	4.7MF	20%	50V
C218	1-101-004-00	CERAMIC	0.01MF		50V
C219	1-136-165-00	FILM	0.1MF	5%	50V
C220	1-124-903-11	ELECT	1MF	20%	50V
C221	1-124-916-11	ELECT	22MF	20%	50V
C222	1-124-916-11	ELECT	22MF	20%	50V
C223	1-102-050-00	CERAMIC	0.01MF		500V
C225	1-124-916-11	ELECT	22MF	20%	50V
C226	1-101-004-00	CERAMIC	0.01MF		50V
C227	1-101-004-00	CERAMIC	0.01MF		50V

REF.NO.	PART NO.	DESCRIPTION	REMARK
		<CONNECTOR>	
CAG-1	*1-564-507-11	PLUG, CONNECTOR 4P	
CAG-2	*1-564-507-11	PLUG, CONNECTOR 4P	
CAG-3	*1-564-507-11	PLUG, CONNECTOR 4P	
CAG-4	*1-564-515-11	PLUG, CONNECTOR 12P	
CAG-5	*1-564-516-11	PLUG, CONNECTOR 13P	
CAG-6	*1-564-514-11	PLUG, CONNECTOR 11P	
CAR-1	*1-564-507-11	PLUG, CONNECTOR 4P	
CAR-2	*1-564-507-11	PLUG, CONNECTOR 4P	
CAR-3	*1-564-507-11	PLUG, CONNECTOR 4P	
CAR-4	*1-568-979-11	CONNECTOR 30P	
CAGJ1	*1-526-575-00	SOCKET, PLUG 1P	
CARJ1	*1-526-575-00	SOCKET, PLUG 1P	
		<DIODE>	
D1	8-719-900-95	DIODE V09G	
D2	8-719-900-95	DIODE V09G	
D3	8-719-109-85	DIODE RD5.1ESB2	
D4	8-719-911-19	DIODE 1SS119	
D7	8-719-911-19	DIODE 1SS119	
D8	8-719-911-19	DIODE 1SS119	
D9	8-719-109-97	DIODE RD6.8ESB2	
D12	8-719-911-19	DIODE 1SS119	
D13	8-719-109-85	DIODE RD5.1ESB2	
D14	8-719-109-97	DIODE RD6.8ESB2	
D15	8-719-911-19	DIODE 1SS119	
D101	8-719-901-83	DIODE 1SS83	
D102	8-719-901-83	DIODE 1SS83	
D103	8-719-911-19	DIODE 1SS119	
D104	8-719-911-19	DIODE 1SS119	
D105	8-719-901-83	DIODE 1SS83	
D106	8-719-911-19	DIODE 1SS119	
D107	8-719-911-19	DIODE 1SS119	
D109	8-719-911-19	DIODE 1SS119	
D110	8-719-109-51	DIODE RD2.0ESB2	
D111	8-719-911-19	DIODE 1SS119	
D112	8-719-911-19	DIODE 1SS119	
D113	8-719-911-19	DIODE 1SS119	
D114	8-719-110-36	DIODE RD13ESB2	
D115	8-719-911-19	DIODE 1SS119	
D117	8-719-911-19	DIODE 1SS119	
D118	8-719-911-19	DIODE 1SS119	
D120	8-719-911-19	DIODE 1SS119	
D121	8-719-911-19	DIODE 1SS119	
D122	8-719-911-19	DIODE 1SS119	
D201	8-719-901-83	DIODE 1SS83	
D202	8-719-901-83	DIODE 1SS83	
D203	8-719-911-19	DIODE 1SS119	
D204	8-719-911-19	DIODE 1SS119	
D205	8-719-901-83	DIODE 1SS83	
D206	8-719-911-19	DIODE 1SS119	
D207	8-719-911-19	DIODE 1SS119	
D209	8-719-911-19	DIODE 1SS119	
D210	8-719-109-51	DIODE RD2.0ESB2	
D211	8-719-911-19	DIODE 1SS119	
D212	8-719-911-19	DIODE 1SS119	
D213	8-719-911-19	DIODE 1SS119	
D214	8-719-110-36	DIODE RD13ESB2	
D217	8-719-911-19	DIODE 1SS119	
D218	8-719-911-19	DIODE 1SS119	
		<IC>	

REF.NO.	PART NO.	DESCRIPTION	REMARK
IC1	8-759-929-65	IC LM7912CT	
IC2	8-759-701-79	IC NJM7812FA	
IC3	8-759-708-05	IC NJM78L05A	
IC4	8-759-000-01	IC MC74HC4538N	
IC5	8-759-984-55	IC MB675429	
IC6	8-759-916-71	IC SN74HC244AN	
IC7	8-759-916-12	IC SN74HC00AN	
IC8	8-759-503-91	IC TL082ACP	
IC101	8-749-924-19	IC VPH05B	
IC102	8-759-503-91	IC TL082ACP	
IC104	8-749-923-15	IC TY885002A	
IC201	8-749-924-19	IC VPH05B	
IC202	8-759-503-91	IC TL082ACP	
IC204	8-749-923-15	IC TY885002A	

<COIL>

REF.NO.	PART NO.	DESCRIPTION	REMARK
L101	1-408-879-21	INDUCTOR 0.47UH	
L201	1-408-879-21	INDUCTOR 0.47UH	

<TRANSISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q1	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q2	8-729-900-89	TRANSISTOR DTC144ES	
Q3	8-729-900-89	TRANSISTOR DTC144ES	
Q4	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q5	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q8	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q9	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q10	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q11	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q12	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q14	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q15	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q16	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q17	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q18	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q19	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q101	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q102	8-729-140-96	TRANSISTOR 2SD774-34	
Q103	8-729-801-88	TRANSISTOR 2SA1381-E	
Q104	8-729-801-88	TRANSISTOR 2SA1381-E	
Q105	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q106	8-729-140-96	TRANSISTOR 2SD774-34	
Q107	8-729-801-88	TRANSISTOR 2SA1381-E	
Q108	8-729-900-65	TRANSISTOR DTA144ES	
Q109	8-729-900-65	TRANSISTOR DTA144ES	
Q110	8-729-900-89	TRANSISTOR DTC144ES	
Q111	8-729-105-74	TRANSISTOR 2SK523-M1	
Q112	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q113	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q115	8-729-801-88	TRANSISTOR 2SA1381-E	
Q201	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q202	8-729-140-96	TRANSISTOR 2SD774-34	
Q203	8-729-801-88	TRANSISTOR 2SA1381-E	
Q204	8-729-801-88	TRANSISTOR 2SA1381-E	
Q205	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q206	8-729-140-96	TRANSISTOR 2SD774-34	
Q207	8-729-801-88	TRANSISTOR 2SA1381-E	
Q208	8-729-900-65	TRANSISTOR DTA144ES	
Q209	8-729-900-65	TRANSISTOR DTA144ES	
Q210	8-729-900-89	TRANSISTOR DTC144ES	
Q211	8-729-105-74	TRANSISTOR 2SK523-M1	
Q212	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q215	8-729-801-88	TRANSISTOR 2SA1381-E	

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
R1	1-247-807-31	CARBON 100 5% 1/4W	
R2	1-215-437-00	METAL 4.7K 1% 1/4W	
R3	1-249-441-11	CARBON 100K 5% 1/4W	
R4	1-215-449-00	METAL 15K 1% 1/4W	
R5	1-247-807-31	CARBON 100 5% 1/4W	
R6	1-249-438-11	CARBON 56K 5% 1/4W	
R7	1-249-437-11	CARBON 47K 5% 1/4W	
R8	1-247-807-31	CARBON 100 5% 1/4W	
R9	1-215-449-00	METAL 15K 1% 1/4W	
R10	1-215-447-00	METAL 12K 1% 1/4W	
R11	1-247-807-31	CARBON 100 5% 1/4W	
R12	1-247-807-31	CARBON 100 5% 1/4W	
R14	1-249-427-11	CARBON 6.8K 5% 1/4W	
R15	1-249-429-11	CARBON 10K 5% 1/4W	
R16	1-247-807-31	CARBON 100 5% 1/4W	
R17	1-249-423-11	CARBON 3.3K 5% 1/4W	
R18	1-249-426-11	CARBON 5.6K 5% 1/4W	
R19	1-215-413-00	METAL 470 1% 1/4W	
R20	1-215-455-00	METAL 27K 1% 1/4W	
R22	1-215-443-00	METAL 8.2K 1% 1/4W	
R23	1-215-447-00	METAL 12K 1% 1/4W	
R24	1-215-453-00	METAL 22K 1% 1/4W	
R25	1-215-457-00	METAL 33K 1% 1/4W	
R26	1-247-807-31	CARBON 100 5% 1/4W	
R27	1-247-807-31	CARBON 100 5% 1/4W	
R28	1-215-431-00	METAL 2.7K 1% 1/4W	
R29	1-249-429-11	CARBON 10K 5% 1/4W	
R30	1-215-469-00	METAL 100K 1% 1/4W	
R31	1-249-429-11	CARBON 10K 5% 1/4W	
R32	1-215-443-00	METAL 8.2K 1% 1/4W	
R33	1-215-443-00	METAL 8.2K 1% 1/4W	
R34	1-215-443-00	METAL 8.2K 1% 1/4W	
R35	1-247-887-00	CARBON 220K 5% 1/4W	
R36	1-247-887-00	CARBON 220K 5% 1/4W	
R37	1-247-887-00	CARBON 220K 5% 1/4W	
R38	1-249-441-11	CARBON 100K 5% 1/4W	
R39	1-215-469-00	METAL 100K 1% 1/4W	
R40	1-249-433-11	CARBON 22K 5% 1/4W	
R41	1-215-473-00	METAL 150K 1% 1/4W	
R42	1-249-433-11	CARBON 22K 5% 1/4W	
R43	1-247-807-31	CARBON 100 5% 1/4W	
R44	1-249-429-11	CARBON 10K 5% 1/4W	
R45	1-249-429-11	CARBON 10K 5% 1/4W	
R46	1-247-887-00	CARBON 220K 5% 1/4W	
R47	1-249-413-11	CARBON 470 5% 1/4W	
R48	1-249-439-11	CARBON 68K 5% 1/4W	
R101	1-215-401-11	METAL 150 1% 1/4W	
R102	1-215-401-11	METAL 150 1% 1/4W	
R103	1-215-473-00	METAL 150K 1% 1/4W	
R105	1-215-469-00	METAL 100K 1% 1/4W	
R106	1-215-465-00	METAL 68K 1% 1/4W	
R107	1-249-421-11	CARBON 2.2K 5% 1/4W	
R108	1-249-403-11	CARBON 68 5% 1/4W F	
R109	1-215-429-00	METAL 2.2K 1% 1/4W	
R110	1-249-413-11	CARBON 470 5% 1/4W F	
R111	1-249-421-11	CARBON 2.2K 5% 1/4W	
R112	1-215-383-00	METAL 27 1% 1/4W	
R117	1-249-421-11	CARBON 2.2K 5% 1/4W	
R118	1-215-447-00	METAL 12K 1% 1/4W	

CA(RG) CA(B)

REF.NO.	PART NO.	DESCRIPTION				REMARK
R119	1-215-433-00	METAL	3.3K	1%	1/4W	
R120	1-215-433-00	METAL	3.3K	1%	1/4W	
R122	1-215-441-00	METAL	6.8K	1%	1/4W	
R123	1-215-481-00	METAL	330K	1%	1/4W	
R124	1-215-433-00	METAL	3.3K	1%	1/4W	
R125	1-249-431-11	CARBON	15K	5%	1/4W	
R126	1-249-431-11	CARBON	15K	5%	1/4W	
R127	1-249-415-11	CARBON	680	5%	1/4W	
R128	1-247-807-31	CARBON	100	5%	1/4W	
R129	1-249-414-11	CARBON	560	5%	1/4W	F
R130	1-215-431-00	METAL	2.7K	1%	1/4W	
R131	1-202-549-00	SOLID	100	10%	1/2W	
R132	1-202-549-00	SOLID	100	10%	1/2W	
R133	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R134	1-249-429-11	CARBON	10K	5%	1/4W	
R135	1-215-469-00	METAL	100K	1%	1/4W	
R136	1-214-777-00	METAL	100K	1%	1/4W	
R137	1-215-445-00	METAL	10K	1%	1/4W	
R138	1-215-451-00	METAL	18K	1%	1/4W	
R139	1-249-421-11	CARBON	2.2K	5%	1/4W	
R140	1-215-453-00	METAL	22K	1%	1/4W	
R141	1-215-421-00	METAL	1K	1%	1/4W	
R142	1-249-417-11	CARBON	1K	5%	1/4W	
R143	1-247-903-00	CARBON	1M	5%	1/4W	
R144	1-249-427-11	CARBON	6.8K	5%	1/4W	
R145	1-247-807-31	CARBON	100	5%	1/4W	
R147	1-215-457-00	METAL	33K	1%	1/4W	
R148	1-249-410-11	CARBON	270	5%	1/4W	F
R149	1-247-807-31	CARBON	100	5%	1/4W	
R150	1-247-807-31	CARBON	100	5%	1/4W	
R160	1-249-423-11	CARBON	3.3K	5%	1/4W	
R170	1-247-735-11	SOLID	47	10%	1/2W	
R201	1-215-401-11	METAL	150	1%	1/4W	
R202	1-215-401-11	METAL	150	1%	1/4W	
R203	1-215-461-00	METAL	47K	1%	1/4W	
R204	1-215-469-00	METAL	100K	1%	1/4W	
R205	1-215-469-00	METAL	100K	1%	1/4W	
R206	1-215-471-00	METAL	120K	1%	1/4W	
R207	1-249-421-11	CARBON	2.2K	5%	1/4W	
R208	1-249-403-11	CARBON	68	5%	1/4W	F
R209	1-215-429-00	METAL	2.2K	1%	1/4W	
R210	1-249-410-11	CARBON	270	5%	1/4W	F
R211	1-249-421-11	CARBON	2.2K	5%	1/4W	
R212	1-215-383-00	METAL	27	1%	1/4W	
R217	1-249-421-11	CARBON	2.2K	5%	1/4W	
R218	1-215-447-00	METAL	12K	1%	1/4W	
R219	1-215-433-00	METAL	3.3K	1%	1/4W	
R220	1-215-433-00	METAL	3.3K	1%	1/4W	
R222	1-215-441-00	METAL	6.8K	1%	1/4W	
R223	1-215-481-00	METAL	330K	1%	1/4W	
R224	1-215-433-00	METAL	3.3K	1%	1/4W	
R225	1-249-431-11	CARBON	15K	5%	1/4W	
R226	1-249-431-11	CARBON	15K	5%	1/4W	
R227	1-249-415-11	CARBON	680	5%	1/4W	
R228	1-247-807-31	CARBON	100	5%	1/4W	
R229	1-249-414-11	CARBON	560	5%	1/4W	F
R230	1-215-431-00	METAL	2.7K	1%	1/4W	
R231	1-202-549-00	SOLID	100	10%	1/2W	
R232	1-202-549-00	SOLID	100	10%	1/2W	
R233	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R234	1-215-469-00	METAL	100K	1%	1/4W	
R235	1-249-429-11	CARBON	10K	5%	1/4W	
R236	1-214-777-00	METAL	100K	1%	1/4W	
R237	1-215-445-00	METAL	10K	1%	1/4W	
R238	1-215-451-00	METAL	18K	1%	1/4W	
R239	1-249-421-11	CARBON	2.2K	5%	1/4W	
R240	1-215-453-00	METAL	22K	1%	1/4W	
R241	1-215-421-00	METAL	1K	1%	1/4W	
R242	1-249-417-11	CARBON	1K	5%	1/4W	
R243	1-247-903-00	CARBON	1M	5%	1/4W	
R244	1-249-427-11	CARBON	6.8K	5%	1/4W	
R245	1-247-807-31	CARBON	100	5%	1/4W	
R247	1-247-807-31	CARBON	100	5%	1/4W	
R248	1-247-807-31	CARBON	100	5%	1/4W	
R260	1-249-423-11	CARBON	3.3K	5%	1/4W	
R270	1-247-735-11	SOLID	47	10%	1/2W	

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*A-1335-033-A CA (B) BOARD, COMPLETE
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<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
C30	1-126-101-11	ELECT	100MF	20%	16V	
C31	1-126-101-11	ELECT	100MF	20%	16V	
C32	1-124-916-11	ELECT	22MF	20%	50V	
C33	1-124-916-11	ELECT	22MF	20%	50V	
C34	1-101-004-00	CERAMIC	0.01MF		50V	
C35	1-124-903-11	ELECT	1MF	20%	50V	
C36	1-124-903-11	ELECT	1MF	20%	50V	
C37	1-124-916-11	ELECT	22MF	20%	50V	
C38	1-101-004-00	CERAMIC	0.01MF		50V	
C42	1-162-117-00	CERAMIC	100PF	10%	500V	
C43	1-101-004-00	CERAMIC	0.01MF		50V	
C44	1-124-798-11	ELECT	1MF	20%	160V	
C45	1-101-004-00	CERAMIC	0.01MF		50V	
C46	1-124-916-11	ELECT	22MF	20%	50V	
C47	1-126-134-11	ELECT	4.7MF	20%	350V	
C48	1-123-932-00	ELECT	4.7MF	20%	160V	
C50	1-124-798-11	ELECT	1MF	20%	160V	
C51	1-102-050-00	CERAMIC	0.01MF		500V	
C52	1-102-050-00	CERAMIC	0.01MF		500V	
C54	1-124-798-11	ELECT	1MF	20%	160V	
C55	1-124-916-11	ELECT	22MF	20%	50V	
C56	1-124-903-11	ELECT	1MF	20%	50V	
C57	1-124-903-11	ELECT	1MF	20%	50V	
C58	1-101-004-00	CERAMIC	0.01MF		50V	
C301	1-124-282-00	ELECT	22MF	20%	16V	
C302	1-124-910-11	ELECT	47MF	20%	50V	
C303	1-126-101-11	ELECT	100MF	20%	16V	
C304	1-126-101-11	ELECT	100MF	20%	16V	
C305	1-124-916-11	ELECT	22MF	20%	50V	
C306	1-102-973-00	CERAMIC	100PF	5%	50V	
C307	1-102-976-00	CERAMIC	180PF	5%	50V	
C310	1-124-798-11	ELECT	1MF	20%	160V	
C311	1-124-916-11	ELECT	22MF	20%	50V	
C312	1-136-165-00	FILM	0.1MF	5%	50V	
C313	1-136-165-00	FILM	0.1MF	5%	50V	
C314	1-126-174-51	ELECT	10MF	20%	350V	
C315	1-102-038-00	CERAMIC	0.001MF		500V	
C316	1-102-050-00	CERAMIC	0.01MF		500V	
C317	1-124-768-11	ELECT	4.7MF	20%	50V	
C318	1-101-004-00	CERAMIC	0.01MF		50V	
C319	1-136-165-00	FILM	0.1MF	5%	50V	
C320	1-124-903-11	ELECT	1MF	20%	50V	
C321	1-124-916-11	ELECT	22MF	20%	50V	
C322	1-124-916-11	ELECT	22MF	20%	50V	

REF.NO.	PART NO.	DESCRIPTION				REMARK
C323	1-102-050-00	CERAMIC	0.01MF			500V
C324	1-102-973-00	CERAMIC	100PF	5%		50V
C325	1-124-916-11	ELECT	22MF	20%		50V
C326	1-101-004-00	CERAMIC	0.01MF			50V
C327	1-101-004-00	CERAMIC	0.01MF			50V
C350	1-126-101-11	ELECT	100MF	20%		16V
C351	1-126-101-11	ELECT	100MF	20%		16V
		<CONNECTOR>				
CAB-1	*1-564-507-11	PLUG, CONNECTOR 4P				
CAB-2	*1-564-507-11	PLUG, CONNECTOR 4P				
CAB-3	*1-564-507-11	PLUG, CONNECTOR 4P				
CAB-7	*1-564-516-11	PLUG, CONNECTOR 13P				
CAB-8	*1-564-507-11	PLUG, CONNECTOR 4P				
CABJ1	*1-526-575-00	SOCKET, PLUG 1P				
		<DIODE>				
D30	8-719-109-66	DIODE RD3.3ESB2				
D31	8-719-901-83	DIODE 1SS83				
D32	8-719-901-83	DIODE 1SS83				
D33	8-719-110-31	DIODE RD12ESB2				
D34	8-719-110-31	DIODE RD12ESB2				
D35	8-719-900-95	DIODE V09G				
D36	8-719-900-95	DIODE V09G				
D40	8-719-900-95	DIODE V09G				
D41	8-719-911-19	DIODE 1SS119				
D301	8-719-901-83	DIODE 1SS83				
D302	8-719-901-83	DIODE 1SS83				
D303	8-719-911-19	DIODE 1SS119				
D304	8-719-911-19	DIODE 1SS119				
D305	8-719-901-83	DIODE 1SS83				
D306	8-719-911-19	DIODE 1SS119				
D307	8-719-911-19	DIODE 1SS119				
D309	8-719-911-19	DIODE 1SS119				
D310	8-719-109-51	DIODE RD2.0ESB2				
D311	8-719-911-19	DIODE 1SS119				
D312	8-719-911-19	DIODE 1SS119				
D313	8-719-911-19	DIODE 1SS119				
D314	8-719-110-36	DIODE RD13ESB2				
D315	8-719-109-66	DIODE RD3.3ESB2				
D316	8-719-911-19	DIODE 1SS119				
D317	8-719-911-19	DIODE 1SS119				
D318	8-719-911-19	DIODE 1SS119				
		<IC>				
IC301	8-749-924-19	IC VPH05B				
IC302	8-759-503-91	IC TL082ACP				
IC304	8-749-923-15	IC TY885002A				
IC305	8-749-923-25	IC TY911504				
		<COIL>				
L301	1-408-879-21	INDUCTOR	0.47UH			
		<TRANSISTOR>				
Q30	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q31	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q32	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q33	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q34	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q35	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q36	8-729-820-82	TRANSISTOR 2SA1208-S				
Q37	8-729-820-82	TRANSISTOR 2SA1208-S				
Q38	8-729-255-12	TRANSISTOR 2SC2910-O				
Q41	8-729-903-68	TRANSISTOR 2SD982				
Q42	8-729-801-88	TRANSISTOR 2SA1381-E				
Q43	8-729-801-88	TRANSISTOR 2SA1381-E				
Q44	8-729-903-68	TRANSISTOR 2SD982				
Q45	8-729-140-96	TRANSISTOR 2SD774-34				
Q301	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q302	8-729-140-96	TRANSISTOR 2SD774-34				
Q303	8-729-801-88	TRANSISTOR 2SA1381-E				
Q304	8-729-801-88	TRANSISTOR 2SA1381-E				
Q305	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q306	8-729-140-96	TRANSISTOR 2SD774-34				
Q307	8-729-801-88	TRANSISTOR 2SA1381-E				
Q308	8-729-900-65	TRANSISTOR DTA144ES				
Q309	8-729-900-65	TRANSISTOR DTA144ES				
Q310	8-729-900-89	TRANSISTOR DTC144ES				
Q311	8-729-105-74	TRANSISTOR 2SK523-M1				
Q312	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q313	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q314	8-729-900-89	TRANSISTOR DTC144ES				
Q315	8-729-801-88	TRANSISTOR 2SA1381-E				
		<RESISTOR>				
R50	1-249-421-11	CARBON	2.2K	5%	1/4W	
R51	1-249-424-11	CARBON	3.9K	5%	1/4W	
R52	1-249-393-11	CARBON	10	5%	1/4W	
R53	1-249-424-11	CARBON	3.9K	5%	1/4W	
R54	1-215-437-00	METAL	4.7K	1%	1/4W	
R55	1-215-439-00	METAL	5.6K	1%	1/4W	
R56	1-215-467-00	METAL	82K	1%	1/4W	
R57	1-247-807-31	CARBON	100	5%	1/4W	
R58	1-247-807-31	CARBON	100	5%	1/4W	
R59	1-249-423-11	CARBON	3.3K	5%	1/4W	
R60	1-247-807-31	CARBON	100	5%	1/4W	
R61	1-249-423-11	CARBON	3.3K	5%	1/4W	
R62	1-249-425-11	CARBON	4.7K	5%	1/4W	
R63	1-249-437-11	CARBON	47K	5%	1/4W	
R65	1-249-425-11	CARBON	4.7K	5%	1/4W	
R66	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R67	1-249-397-11	CARBON	22	5%	1/4W	
R68	1-249-397-11	CARBON	22	5%	1/4W	F
R74	1-249-429-11	CARBON	10K	5%	1/4W	F
R75	1-249-429-11	CARBON	10K	5%	1/4W	F
R76	1-202-719-00	SOLID	1M	10%	1/2W	
R77	1-247-903-00	CARBON	1M	5%	1/4W	
R79	1-249-397-11	CARBON	22	5%	1/4W	F
R80	1-249-437-11	CARBON	47K	5%	1/4W	
R81	1-249-441-11	CARBON	100K	5%	1/4W	
R82	1-249-437-11	CARBON	47K	5%	1/4W	
R83	1-249-435-11	CARBON	33K	5%	1/4W	
R84	1-249-476-11	CARBON	1.5	5%	1/2W	F
R85	1-249-433-11	CARBON	22K	5%	1/4W	
R86	1-247-903-00	CARBON	1M	5%	1/4W	
R87	1-249-425-11	CARBON	4.7K	5%	1/4W	
R301	1-215-401-11	METAL	150	1%	1/4W	
R302	1-215-401-11	METAL	150	1%	1/4W	
R303	1-215-461-00	METAL	47K	1%	1/4W	
R304	1-215-469-00	METAL	100K	1%	1/4W	
R305	1-215-469-00	METAL	100K	1%	1/4W	

REF.NO.	PART NO.	DESCRIPTION				REMARK
R306	1-215-473-00	METAL	150K	1%	1/4W	
R307	1-249-421-11	CARBON	2.2K	5%	1/4W	
R308	1-249-403-11	CARBON	68	5%	1/4W	
R309	1-215-429-00	METAL	2.2K	1%	1/4W	
R310	1-249-409-11	CARBON	220	5%	1/4W	F
R311	1-249-421-11	CARBON	2.2K	5%	1/4W	
R312	1-215-383-00	METAL	27	1%	1/4W	
R317	1-249-421-11	CARBON	2.2K	5%	1/4W	
R318	1-215-447-00	METAL	12K	1%	1/4W	
R319	1-215-433-00	METAL	3.3K	1%	1/4W	
R320	1-215-433-00	METAL	3.3K	1%	1/4W	
R322	1-215-441-00	METAL	6.8K	1%	1/4W	
R323	1-215-481-00	METAL	330K	1%	1/4W	
R324	1-215-433-00	METAL	3.3K	1%	1/4W	
R325	1-249-431-11	CARBON	15K	5%	1/4W	
R326	1-249-431-11	CARBON	15K	5%	1/4W	
R327	1-249-415-11	CARBON	680	5%	1/4W	
R328	1-247-807-31	CARBON	100	5%	1/4W	
R329	1-249-414-11	CARBON	560	5%	1/4W	F
R330	1-215-431-00	METAL	2.7K	1%	1/4W	
R331	1-202-549-00	SOLID	100	10%	1/2W	
R332	1-202-549-00	SOLID	100	10%	1/2W	
R333	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R334	1-215-469-00	METAL	100K	1%	1/4W	
R335	1-249-429-11	CARBON	10K	5%	1/4W	
R336	1-214-777-00	METAL	100K	1%	1/4W	
R337	1-215-445-00	METAL	10K	1%	1/4W	
R338	1-215-451-00	METAL	18K	1%	1/4W	
R339	1-249-421-11	CARBON	2.2K	5%	1/4W	
R340	1-215-453-00	METAL	22K	1%	1/4W	
R341	1-215-421-00	METAL	1K	1%	1/4W	
R342	1-249-417-11	CARBON	1K	5%	1/4W	
R343	1-247-903-00	CARBON	1M	5%	1/4W	
R344	1-249-427-11	CARBON	6.8K	5%	1/4W	
R345	1-247-807-31	CARBON	100	5%	1/4W	
R347	1-247-807-31	CARBON	100	5%	1/4W	
R348	1-247-903-00	CARBON	1M	5%	1/4W	
R349	1-249-423-11	CARBON	3.3K	5%	1/4W	
R350	1-247-807-31	CARBON	100	5%	1/4W	
R351	1-215-447-00	METAL	12K	1%	1/4W	
R352	1-249-421-11	CARBON	2.2K	5%	1/4W	
R353	1-249-403-11	CARBON	68	5%	1/4W	F
R356	1-215-457-00	METAL	33K	1%	1/4W	
R360	1-249-423-11	CARBON	3.3K	5%	1/4W	
R370	1-247-735-11	SOLID	47	10%	1/2W	

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*1-641-601-11 DF BOARD
****

<CONNECTOR>

DF-1	*1-568-984-11	CONNECTOR, MALE 96P				

<RESISTOR>

R901	1-215-421-00	METAL	1K	1%	1/4W	
R902	1-215-421-00	METAL	1K	1%	1/4W	
R903	1-215-421-00	METAL	1K	1%	1/4W	
R904	1-215-421-00	METAL	1K	1%	1/4W	
R905	1-215-421-00	METAL	1K	1%	1/4W	
R906	1-215-421-00	METAL	1K	1%	1/4W	

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REF.NO.	PART NO.	DESCRIPTION				REMARK

*1-641-634-11 DM BOARD
****

<CAPACITOR>

C1	1-124-556-11	ELECT	2200MF	20%	16V	
C2	1-124-556-11	ELECT	2200MF	20%	16V	

<CONNECTOR>

DM-1	*1-568-982-11	CONNECTOR, FEMALE 96P				
DM-2	*1-568-982-11	CONNECTOR, FEMALE 96P				
DM-3	*1-568-982-11	CONNECTOR, FEMALE 96P				
DM-4	*1-568-982-11	CONNECTOR, FEMALE 96P				
DM-5	*1-568-982-11	CONNECTOR, FEMALE 96P				
DM-6	*1-564-509-11	PLUG, CONNECTOR 6P				
DM-7	*1-564-515-11	PLUG, CONNECTOR 12P				
DM-8	*1-564-514-11	PLUG, CONNECTOR 11P				
DM-9	*1-564-509-11	PLUG, CONNECTOR 6P				
DM-10	*1-564-516-11	PLUG, CONNECTOR 13P				
DM-11	*1-564-509-11	PLUG, CONNECTOR 6P				
DM-18	1-506-348-XX	PIN, CONNECOTR 5P				
DM-19	*1-506-348-XX	PIN, CONNECTOR 6P				
DM-20	1-506-348-XX	PIN, CONNECTOR 4P				
DM-21	1-506-348-XX	PIN, CONNECTOR 3P				
DM-22	*1-564-507-11	PLUG, CONNECTOR 4P				
DM-23	1-508-742-00	PIN, CONNECTOR 3P				
DM-24	1-508-742-00	PIN, CONNECTOR 3P				
DM-25	*1-564-514-11	PLUG, CONNECTOR 11P				
DM-27	*1-564-507-11	PLUG, CONNECTOR 4P				
DM-28	*1-564-508-11	PLUG, CONNECTOR 5P				
DM-29	*1-564-516-11	PLUG, CONNECTOR 13P				
DM-31	*1-564-514-11	PLUG, CONNECTOR 11P				
DM-33	*1-568-982-11	CONNECTOR, FEMALE 96P				
DM-34	*1-568-985-11	CONNECTOR, FEMALE 64P				
DM-35	*1-564-507-11	PLUG, CONNECTOR 4P				
DM-38	*1-564-505-11	PLUG, CONNECTOR 2P				

<RESISTOR>

R1	1-215-908-00	METAL OXIDE	33	5%	3W	F
R2	1-215-908-00	METAL OXIDE	33	5%	3W	F
R3	1-216-483-11	METAL OXIDE	2.7K	5%	3W	F
R4	1-216-483-11	METAL OXIDE	2.7K	5%	3W	F
R5	1-216-475-11	METAL OXIDE	120	5%	3W	F

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*A-1346-189-A DB BOARD, COMPLETE
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<CAPACITOR>

C1501	1-126-157-11	ELECT	10MF	20%	16V	
C1502	1-126-157-11	ELECT	10MF	20%	16V	
C1503	1-126-157-11	ELECT	10MF	20%	16V	
C1504	1-126-157-11	ELECT	10MF	20%	16V	
C1505	1-126-157-11	ELECT	10MF	20%	16V	
C1506	1-163-031-11	CERAMIC CHIP	0.01MF		50V	
C1507	1-163-031-11	CERAMIC CHIP	0.01MF		50V	
C1508	1-163-031-11	CERAMIC CHIP	0.01MF		50V	
C1509	1-163-031-11	CERAMIC CHIP	0.01MF		50V	
C1510	1-163-031-11	CERAMIC CHIP	0.01MF		50V	
C1511	1-163-031-11	CERAMIC CHIP	0.01MF		50V	

REF.NO.	PART NO.	DESCRIPTION	REMARK
C1512	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1513	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1514	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1515	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1516	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1517	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1518	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1519	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1520	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1521	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1522	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1523	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1524	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1525	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1526	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1527	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1528	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1529	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1530	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1531	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1532	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1533	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1534	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1535	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1536	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1537	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1538	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1539	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1540	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1541	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1542	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1543	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1544	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1545	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1546	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1547	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1548	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1549	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1550	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1551	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1552	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1553	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1554	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1555	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1556	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1557	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1558	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1559	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1560	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1561	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1562	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1563	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1564	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1565	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1566	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1567	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1568	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1569	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1570	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1571	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1572	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1573	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1574	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1575	1-163-031-11	CERAMIC CHIP 0.01MF	50V

REF.NO.	PART NO.	DESCRIPTION	REMARK
C1577	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1578	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1580	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1581	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1582	1-164-161-11	CERAMIC CHIP 0.0022MF 10%	50V
C1583	1-164-161-11	CERAMIC CHIP 0.0022MF 10%	50V
C1584	1-164-161-11	CERAMIC CHIP 0.0022MF 10%	50V
		<DIODE>	
D1503	8-719-800-76	DIODE 1SS226	
D1504	8-719-800-76	DIODE 1SS226	
D1505	8-719-800-76	DIODE 1SS226	
D1506	8-719-800-76	DIODE 1SS226	
D1507	8-719-800-76	DIODE 1SS226	
D1508	8-719-800-76	DIODE 1SS226	
		<CONNECTOR>	
DB1501*	1-568-984-11	CONNECTOR, MALE 96P	
		<IC>	
IC1501	8-759-926-48	IC SN74HC244ANS	
IC1502	8-759-926-48	IC SN74HC244ANS	
IC1503	8-759-926-48	IC SN74HC244ANS	
IC1504	8-759-926-48	IC SN74HC244ANS	
IC1505	8-759-926-11	IC SN74HC138ANS	
IC1506	8-759-926-11	IC SN74HC138ANS	
IC1507	8-759-926-11	IC SN74HC138ANS	
IC1508	8-759-926-11	IC SN74HC138ANS	
IC1509	8-759-926-11	IC SN74HC138ANS	
IC1510	8-759-926-11	IC SN74HC138ANS	
IC1511	8-759-995-64	IC MB86023	
IC1512	8-759-995-64	IC MB86023	
IC1513	8-759-995-64	IC MB86023	
IC1514	8-759-995-64	IC MB86023	
IC1515	8-759-995-64	IC MB86023	
IC1516	8-759-995-64	IC MB86023	
IC1517	8-759-995-64	IC MB86023	
IC1518	8-759-995-64	IC MB86023	
IC1519	8-759-995-64	IC MB86023	
IC1520	8-759-995-64	IC MB86023	
IC1521	8-759-995-64	IC MB86023	
IC1522	8-759-995-64	IC MB86023	
IC1523	8-759-995-64	IC MB86023	
IC1524	8-759-995-64	IC MB86023	
IC1525	8-759-995-64	IC MB86023	
IC1526	8-759-995-64	IC MB86023	
IC1527	8-759-995-64	IC MB86023	
IC1528	8-759-995-64	IC MB86023	
IC1529	8-759-995-64	IC MB86023	
IC1530	8-759-995-64	IC MB86023	
IC1531	8-759-995-64	IC MB86023	
IC1532	8-759-995-64	IC MB86023	
IC1533	8-759-995-64	IC MB86023	
IC1534	8-759-995-64	IC MB86023	
IC1535	8-759-995-64	IC MB86023	
IC1536	8-759-995-64	IC MB86023	
IC1537	8-759-995-64	IC MB86023	
IC1538	8-759-995-64	IC MB86023	
IC1539	8-759-995-64	IC MB86023	
IC1540	8-759-995-64	IC MB86023	

DB

REF.NO.	PART NO.	DESCRIPTION	REMARK
IC1541	8-759-995-64	IC MB86023	
IC1542	8-759-995-64	IC MB86023	
IC1543	8-759-995-64	IC MB86023	
IC1544	8-759-995-64	IC MB86023	
IC1545	8-759-995-64	IC MB86023	
IC1546	8-759-995-64	IC MB86023	
IC1547	8-759-100-96	IC UPC4558G2	
IC1548	8-759-100-96	IC UPC4558G2	
IC1549	8-759-114-06	IC UPC814G2-1	
IC1550	8-759-114-06	IC UPC814G2-1	
IC1551	8-759-114-06	IC UPC814G2-1	
IC1552	8-759-908-15	IC TL431CLP	
		<COIL>	
L1501	1-459-155-00	COIL (WITH CORE) 45UH	
L1502	1-459-155-00	COIL (WITH CORE) 45UH	
		<TRANSITOR>	
Q1501	8-729-205-96	TRANSISTOR 2SC3668-O	
Q1502	8-729-205-95	TRANSISTOR 2SA1428-Y	
		<RESISTOR>	
R1501	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R1502	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R1503	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R1504	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R1505	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R1506	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R1507	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R1508	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R1509	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R1510	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R1511	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R1512	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R1513	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R1514	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R1515	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R1516	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R1517	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R1518	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R1519	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R1520	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R1521	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R1522	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R1523	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R1524	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R1525	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R1526	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R1527	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R1528	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R1529	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R1530	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R1531	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R1532	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R1533	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R1534	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R1535	1-216-627-11	METAL CHIP 100 0.50% 1/10W	
R1536	1-216-651-11	METAL CHIP 1K 0.50% 1/10W	
R1537	1-216-653-11	METAL CHIP 1.2K 0.50% 1/10W	
R1538	1-216-653-11	METAL CHIP 1.2K 0.50% 1/10W	
R1539	1-216-653-11	METAL CHIP 1.2K 0.50% 1/10W	

REF.NO.	PART NO.	DESCRIPTION	REMARK
R1540	1-216-627-11	METAL CHIP 100 0.50% 1/10W	
R1541	1-216-651-11	METAL CHIP 1K 0.50% 1/10W	
R1542	1-216-671-11	METAL CHIP 6.8K 0.50% 1/10W	
R1543	1-216-671-11	METAL CHIP 6.8K 0.50% 1/10W	
R1544	1-216-671-11	METAL CHIP 6.8K 0.50% 1/10W	
R1545	1-216-627-11	METAL CHIP 100 0.50% 1/10W	
R1546	1-216-651-11	METAL CHIP 1K 0.50% 1/10W	
R1547	1-216-663-11	METAL CHIP 3.3K 0.50% 1/10W	
R1548	1-216-663-11	METAL CHIP 3.3K 0.50% 1/10W	
R1549	1-216-663-11	METAL CHIP 3.3K 0.50% 1/10W	
R1550	1-216-627-11	METAL CHIP 100 0.50% 1/10W	
R1551	1-216-651-11	METAL CHIP 1K 0.50% 1/10W	
R1552	1-216-675-11	METAL CHIP 10K 0.50% 1/10W	
R1553	1-216-675-11	METAL CHIP 10K 0.50% 1/10W	
R1554	1-216-675-11	METAL CHIP 10K 0.50% 1/10W	
R1555	1-216-627-11	METAL CHIP 100 0.50% 1/10W	
R1556	1-216-675-11	METAL CHIP 10K 0.50% 1/10W	
R1557	1-216-675-11	METAL CHIP 10K 0.50% 1/10W	
R1558	1-216-627-11	METAL CHIP 100 0.50% 1/10W	
R1559	1-216-667-11	METAL CHIP 4.7K 0.50% 1/10W	
R1560	1-216-645-11	METAL CHIP 560 0.50% 1/10W	
R1561	1-216-663-11	METAL CHIP 3.3K 0.50% 1/10W	
R1562	1-216-663-11	METAL CHIP 3.3K 0.50% 1/10W	
R1563	1-216-627-11	METAL CHIP 100 0.50% 1/10W	
R1565	1-216-675-11	METAL CHIP 10K 0.50% 1/10W	
R1566	1-216-675-11	METAL CHIP 10K 0.50% 1/10W	
R1567	1-216-627-11	METAL CHIP 100 0.50% 1/10W	
R1568	1-216-675-11	METAL CHIP 10K 0.50% 1/10W	
R1569	1-216-675-11	METAL CHIP 10K 0.50% 1/10W	
R1570	1-216-627-11	METAL CHIP 100 0.50% 1/10W	
R1571	1-216-651-11	METAL CHIP 1K 0.50% 1/10W	
R1572	1-216-697-11	METAL CHIP 82K 0.50% 1/10W	
R1573	1-216-697-11	METAL CHIP 82K 0.50% 1/10W	
R1574	1-216-697-11	METAL CHIP 82K 0.50% 1/10W	
R1575	1-216-627-11	METAL CHIP 100 0.50% 1/10W	
R1576	1-216-651-11	METAL CHIP 1K 0.50% 1/10W	
R1577	1-216-113-00	METAL GLAZE 470K 5% 1/10W	
R1578	1-216-113-00	METAL GLAZE 470K 5% 1/10W	
R1579	1-216-113-00	METAL GLAZE 470K 5% 1/10W	
R1580	1-216-627-11	METAL CHIP 100 0.50% 1/10W	
R1581	1-216-676-11	METAL CHIP 11K 0.50% 1/10W	
R1582	1-216-676-11	METAL CHIP 11K 0.50% 1/10W	
R1583	1-216-676-11	METAL CHIP 11K 0.50% 1/10W	
R1584	1-216-697-11	METAL CHIP 82K 0.50% 1/10W	
R1585	1-216-697-11	METAL CHIP 82K 0.50% 1/10W	
R1586	1-216-697-11	METAL CHIP 82K 0.50% 1/10W	
R1587	1-216-697-11	METAL CHIP 82K 0.50% 1/10W	
R1588	1-216-627-11	METAL CHIP 100 0.50% 1/10W	
R1589	1-216-109-00	METAL GLAZE 330K 5% 1/10W	
R1590	1-216-109-00	METAL GLAZE 330K 5% 1/10W	
R1591	1-216-109-00	METAL GLAZE 330K 5% 1/10W	
R1592	1-216-101-00	METAL GLAZE 150K 5% 1/10W	
R1593	1-216-101-00	METAL GLAZE 150K 5% 1/10W	
R1594	1-216-101-00	METAL GLAZE 150K 5% 1/10W	
R1595	1-216-627-11	METAL CHIP 100 0.50% 1/10W	
R1596	1-216-685-11	METAL CHIP 27K 0.50% 1/10W	
R1597	1-216-675-11	METAL CHIP 10K 0.50% 1/10W	
R1598	1-216-675-11	METAL CHIP 10K 0.50% 1/10W	
R1599	1-216-627-11	METAL CHIP 100 0.50% 1/10W	
R1601	1-216-667-11	METAL CHIP 4.7K 0.50% 1/10W	
R1602	1-216-667-11	METAL CHIP 4.7K 0.50% 1/10W	
R1603	1-216-667-11	METAL CHIP 4.7K 0.50% 1/10W	
R1604	1-216-627-11	METAL CHIP 100 0.50% 1/10W	

DB

REF.NO.	PART NO.	DESCRIPTION	REMARK
R1606	1-216-667-11	METAL CHIP 4.7K 0.50% 1/10W	
R1607	1-216-667-11	METAL CHIP 4.7K 0.50% 1/10W	
R1608	1-216-667-11	METAL CHIP 4.7K 0.50% 1/10W	
R1609	1-216-627-11	METAL CHIP 100 0.50% 1/10W	
R1610	1-216-659-11	METAL CHIP 2.2K 0.50% 1/10W	
R1611	1-216-675-11	METAL CHIP 10K 0.50% 1/10W	
R1612	1-216-675-11	METAL CHIP 10K 0.50% 1/10W	
R1613	1-216-627-11	METAL CHIP 100 0.50% 1/10W	
R1614	1-216-683-11	METAL CHIP 22K 0.50% 1/10W	
R1615	1-216-683-11	METAL CHIP 22K 0.50% 1/10W	
R1616	1-216-683-11	METAL CHIP 22K 0.50% 1/10W	
R1617	1-216-627-11	METAL CHIP 100 0.50% 1/10W	
R1618	1-216-683-11	METAL CHIP 22K 0.50% 1/10W	
R1619	1-216-683-11	METAL CHIP 22K 0.50% 1/10W	
R1620	1-216-683-11	METAL CHIP 22K 0.50% 1/10W	
R1621	1-216-627-11	METAL CHIP 100 0.50% 1/10W	
R1622	1-216-683-11	METAL CHIP 22K 0.50% 1/10W	
R1623	1-216-683-11	METAL CHIP 22K 0.50% 1/10W	
R1624	1-216-683-11	METAL CHIP 22K 0.50% 1/10W	
R1625	1-216-627-11	METAL CHIP 100 0.50% 1/10W	
R1626	1-216-683-11	METAL CHIP 22K 0.50% 1/10W	
R1627	1-216-683-11	METAL CHIP 22K 0.50% 1/10W	
R1628	1-216-683-11	METAL CHIP 22K 0.50% 1/10W	
R1629	1-216-627-11	METAL CHIP 100 0.50% 1/10W	
R1630	1-216-675-11	METAL CHIP 10K 0.50% 1/10W	
R1631	1-216-675-11	METAL CHIP 10K 0.50% 1/10W	
R1632	1-216-675-11	METAL CHIP 10K 0.50% 1/10W	
R1633	1-216-627-11	METAL CHIP 100 0.50% 1/10W	
R1634	1-216-675-11	METAL CHIP 10K 0.50% 1/10W	
R1635	1-216-675-11	METAL CHIP 10K 0.50% 1/10W	
R1636	1-216-675-11	METAL CHIP 10K 0.50% 1/10W	
R1637	1-216-627-11	METAL CHIP 100 0.50% 1/10W	
R1638	1-216-675-11	METAL CHIP 10K 0.50% 1/10W	
R1639	1-216-675-11	METAL CHIP 10K 0.50% 1/10W	
R1640	1-216-675-11	METAL CHIP 10K 0.50% 1/10W	
R1641	1-216-627-11	METAL CHIP 100 0.50% 1/10W	
R1642	1-216-675-11	METAL CHIP 10K 0.50% 1/10W	
R1643	1-216-675-11	METAL CHIP 10K 0.50% 1/10W	
R1644	1-216-675-11	METAL CHIP 10K 0.50% 1/10W	
R1645	1-216-627-11	METAL CHIP 100 0.50% 1/10W	
R1646	1-216-683-11	METAL CHIP 22K 0.50% 1/10W	
R1647	1-216-683-11	METAL CHIP 22K 0.50% 1/10W	
R1648	1-216-683-11	METAL CHIP 22K 0.50% 1/10W	
R1649	1-216-627-11	METAL CHIP 100 0.50% 1/10W	
R1650	1-216-683-11	METAL CHIP 22K 0.50% 1/10W	
R1651	1-216-683-11	METAL CHIP 22K 0.50% 1/10W	
R1652	1-216-683-11	METAL CHIP 22K 0.50% 1/10W	
R1653	1-216-627-11	METAL CHIP 100 0.50% 1/10W	
R1654	1-216-683-11	METAL CHIP 22K 0.50% 1/10W	
R1655	1-216-683-11	METAL CHIP 22K 0.50% 1/10W	
R1656	1-216-683-11	METAL CHIP 22K 0.50% 1/10W	
R1657	1-216-627-11	METAL CHIP 100 0.50% 1/10W	
R1658	1-216-683-11	METAL CHIP 22K 0.50% 1/10W	
R1659	1-216-683-11	METAL CHIP 22K 0.50% 1/10W	
R1660	1-216-683-11	METAL CHIP 22K 0.50% 1/10W	
R1661	1-216-627-11	METAL CHIP 100 0.50% 1/10W	
R1662	1-216-675-11	METAL CHIP 10K 0.50% 1/10W	
R1663	1-216-675-11	METAL CHIP 10K 0.50% 1/10W	
R1664	1-216-675-11	METAL CHIP 10K 0.50% 1/10W	
R1665	1-216-627-11	METAL CHIP 100 0.50% 1/10W	
R1666	1-216-675-11	METAL CHIP 10K 0.50% 1/10W	
R1667	1-216-675-11	METAL CHIP 10K 0.50% 1/10W	
R1668	1-216-675-11	METAL CHIP 10K 0.50% 1/10W	
R1669	1-216-627-11	METAL CHIP 100 0.50% 1/10W	
R1670	1-216-675-11	METAL CHIP 10K 0.50% 1/10W	
R1671	1-216-675-11	METAL CHIP 10K 0.50% 1/10W	
R1672	1-216-675-11	METAL CHIP 10K 0.50% 1/10W	
R1673	1-216-627-11	METAL CHIP 100 0.50% 1/10W	
R1674	1-216-675-11	METAL CHIP 10K 0.50% 1/10W	
R1675	1-216-675-11	METAL CHIP 10K 0.50% 1/10W	
R1676	1-216-675-11	METAL CHIP 10K 0.50% 1/10W	
R1677	1-216-627-11	METAL CHIP 100 0.50% 1/10W	
R1678	1-216-651-11	METAL CHIP 1K 0.50% 1/10W	
R1679	1-216-651-11	METAL CHIP 1K 0.50% 1/10W	
R1680	1-216-651-11	METAL CHIP 1K 0.50% 1/10W	
R1681	1-216-651-11	METAL CHIP 1K 0.50% 1/10W	
R1682	1-216-627-11	METAL CHIP 100 0.50% 1/10W	
R1683	1-216-651-11	METAL CHIP 1K 0.50% 1/10W	
R1684	1-216-651-11	METAL CHIP 1K 0.50% 1/10W	
R1685	1-216-651-11	METAL CHIP 1K 0.50% 1/10W	
R1686	1-216-651-11	METAL CHIP 1K 0.50% 1/10W	
R1687	1-216-627-11	METAL CHIP 100 0.50% 1/10W	
R1688	1-216-651-11	METAL CHIP 1K 0.50% 1/10W	
R1689	1-216-651-11	METAL CHIP 1K 0.50% 1/10W	
R1690	1-216-651-11	METAL CHIP 1K 0.50% 1/10W	
R1691	1-216-651-11	METAL CHIP 1K 0.50% 1/10W	
R1692	1-216-627-11	METAL CHIP 100 0.50% 1/10W	
R1693	1-216-651-11	METAL CHIP 1K 0.50% 1/10W	
R1694	1-216-651-11	METAL CHIP 1K 0.50% 1/10W	
R1695	1-216-651-11	METAL CHIP 1K 0.50% 1/10W	
R1696	1-216-651-11	METAL CHIP 1K 0.50% 1/10W	
R1697	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R1698	1-216-661-11	METAL CHIP 2.7K 0.50% 1/10W	
R1699	1-216-651-11	METAL CHIP 1K 0.50% 1/10W	
R1700	1-216-651-11	METAL CHIP 1K 0.50% 1/10W	
R1701	1-216-661-11	METAL CHIP 2.7K 0.50% 1/10W	
R1702	1-216-651-11	METAL CHIP 1K 0.50% 1/10W	
R1703	1-216-651-11	METAL CHIP 1K 0.50% 1/10W	
R1704	1-216-661-11	METAL CHIP 2.7K 0.50% 1/10W	
R1705	1-216-651-11	METAL CHIP 1K 0.50% 1/10W	
R1706	1-216-651-11	METAL CHIP 1K 0.50% 1/10W	
R1707	1-216-661-11	METAL CHIP 2.7K 0.50% 1/10W	
R1708	1-216-651-11	METAL CHIP 1K 0.50% 1/10W	
R1709	1-216-651-11	METAL CHIP 1K 0.50% 1/10W	
R1710	1-216-661-11	METAL CHIP 2.7K 0.50% 1/10W	
R1711	1-216-651-11	METAL CHIP 1K 0.50% 1/10W	
R1712	1-216-651-11	METAL CHIP 1K 0.50% 1/10W	
R1713	1-216-661-11	METAL CHIP 2.7K 0.50% 1/10W	
R1714	1-216-651-11	METAL CHIP 1K 0.50% 1/10W	
R1715	1-216-651-11	METAL CHIP 1K 0.50% 1/10W	
R1716	1-216-679-11	METAL CHIP 15K 0.50% 1/10W	
R1717	1-216-627-11	METAL CHIP 100 0.50% 1/10W	
R1718	1-216-651-11	METAL CHIP 1K 0.50% 1/10W	
R1719	1-216-679-11	METAL CHIP 15K 0.50% 1/10W	
R1720	1-216-627-11	METAL CHIP 100 0.50% 1/10W	
R1721	1-216-651-11	METAL CHIP 1K 0.50% 1/10W	
R1722	1-216-679-11	METAL CHIP 15K 0.50% 1/10W	
R1723	1-216-627-11	METAL CHIP 100 0.50% 1/10W	
R1724	1-216-651-11	METAL CHIP 1K 0.50% 1/10W	
R1725	1-216-627-11	METAL CHIP 100 0.50% 1/10W	
R1726	1-216-627-11	METAL CHIP 100 0.50% 1/10W	
R1727	1-216-627-11	METAL CHIP 100 0.50% 1/10W	
R1728	1-216-667-11	METAL CHIP 4.7K 0.50% 1/10W	
R1729	1-216-667-11	METAL CHIP 4.7K 0.50% 1/10W	
R1801	1-216-691-11	METAL CHIP 47K 0.50% 1/10W	
R1802	1-216-691-11	METAL CHIP 47K 0.50% 1/10W	
R1803	1-216-691-11	METAL CHIP 47K 0.50% 1/10W	

REF.NO.	PART NO.	DESCRIPTION				REMARK
R1804	1-216-671-11	METAL CHIP	6.8K	0.50%	1/10W	
R1805	1-216-101-00	METAL GLAZE	150K	5%	1/10W	
R1806	1-216-683-11	METAL CHIP	22K	0.50%	1/10W	
R1807	1-216-683-11	METAL CHIP	22K	0.50%	1/10W	
R1808	1-216-683-11	METAL CHIP	22K	0.50%	1/10W	
R1809	1-216-683-11	METAL CHIP	22K	0.50%	1/10W	
R1810	1-216-683-11	METAL CHIP	22K	0.50%	1/10W	
R1811	1-216-683-11	METAL CHIP	22K	0.50%	1/10W	
R1812	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W	
R1813	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W	
R1814	1-216-645-11	METAL CHIP	560	0.50%	1/10W	
R1815	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W	
R1816	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W	
R1817	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W	
R1818	1-216-683-11	METAL CHIP	22K	0.50%	1/10W	
R1819	1-216-683-11	METAL CHIP	22K	0.50%	1/10W	
R1820	1-216-683-11	METAL CHIP	22K	0.50%	1/10W	
R1821	1-216-683-11	METAL CHIP	22K	0.50%	1/10W	
R2000	1-216-619-11	METAL CHIP	47	0.50%	1/10W	
R2001	1-216-619-11	METAL CHIP	47	0.50%	1/10W	

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*A-1346-190-A E BOARD, COMPLETE
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4-382-854-11 SCREW (M3X10), P, SW (+)

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
C1	1-126-899-11	ELECT	3900MF	20%	16V	
C2	1-126-899-11	ELECT	3900MF	20%	16V	
C3	1-126-899-11	ELECT	3900MF	20%	16V	
C4	1-102-824-00	CERAMIC	470PF	5%	50V	
C5	1-136-153-00	FILM	0.01MF	5%	50V	
C6	1-102-824-00	CERAMIC	470PF	5%	50V	
C7	1-102-824-00	CERAMIC	470PF	5%	50V	
C8	1-136-153-00	FILM	0.01MF	5%	50V	
C9	1-102-824-00	CERAMIC	470PF	5%	50V	
C10	1-136-153-00	FILM	0.01MF	5%	50V	
C11	1-102-824-00	CERAMIC	470PF	5%	50V	
C12	1-102-824-00	CERAMIC	470PF	5%	50V	
C13	1-130-908-00	FILM	0.0039MF	3%	1.6KV	
C14	1-130-908-00	FILM	0.0039MF	3%	1.6KV	
C15	1-124-585-11	ELECT	3300MF	20%	10V	
C16	1-124-585-11	ELECT	3300MF	20%	10V	
C17	1-123-935-00	ELECT	33MF	20%	160V	
C18	1-129-996-00	FILM	0.22MF	20%	630V	
C19	1-124-585-11	ELECT	3300MF	20%	10V	
C21	1-136-945-11	FILM	8.2MF	5%	200V	
C22	1-136-945-11	FILM	8.2MF	5%	200V	
C23	1-136-945-11	FILM	8.2MF	5%	200V	
C24	1-136-945-11	FILM	8.2MF	5%	200V	
C30	1-136-613-11	FILM	0.0068MF	3%	2KV	
C31	1-106-391-12	MYLAR	0.1MF	10%	200V	
C32	1-124-907-11	ELECT	10MF	20%	50V	
C35	1-102-244-00	CERAMIC	220PF	10%	500V	
C36	1-164-747-11	CERAMIC	330PF	15%	1.5KV	
C37	1-164-747-11	CERAMIC	330PF	15%	1.5KV	
C38	1-164-747-11	CERAMIC	330PF	15%	1.5KV	
C101	1-102-973-00	CERAMIC	100PF	5%	50V	
C102	1-136-159-00	FILM	0.033MF	5%	50V	
C104	1-136-165-00	FILM	0.1MF	5%	50V	
C105	1-136-165-00	FILM	0.1MF	5%	50V	
C106	1-126-101-11	ELECT	100MF	20%	16V	
C109	1-124-903-11	ELECT	1MF	20%	50V	
C110	1-126-101-11	ELECT	100MF	20%	16V	
C111	1-126-101-11	ELECT	100MF	20%	16V	
C112	1-126-101-11	ELECT	100MF	20%	16V	
C113	1-124-916-11	ELECT	22MF	20%	50V	
C114	1-124-499-11	ELECT	1MF	20%	50V	
C115	1-136-153-00	FILM	0.01MF	5%	50V	
C116	1-130-475-00	MYLAR	0.0022MF	5%	50V	
C117	1-102-973-00	CERAMIC	100PF	5%	50V	
C118	1-136-165-00	FILM	0.1MF	5%	50V	
C119	1-126-101-11	ELECT	100MF	20%	16V	
C120	1-123-939-00	ELECT	10MF	20%	200V	
C121	1-136-159-00	FILM	0.033MF	5%	50V	
C122	1-123-024-21	ELECT	33MF		160V	
C123	1-123-024-21	ELECT	33MF		160V	
C124	1-125-499-11	ELECT(BLOCK)	220MF	20%	200V	
C125	1-136-153-00	FILM	0.01MF	5%	50V	
C126	1-130-471-00	MYLAR	0.001MF	5%	50V	
C128	1-123-939-00	ELECT	10MF	20%	200V	
C129	1-123-939-00	ELECT	10MF	20%	200V	
C130	1-124-120-11	ELECT	220MF	20%	16V	
C131	1-124-120-11	ELECT	220MF	20%	16V	
C132	1-123-024-21	ELECT	33MF		160V	
C133	1-124-499-11	ELECT	1MF	20%	50V	
C134	1-124-478-11	ELECT	100MF	20%	25V	
C135	1-124-478-11	ELECT	100MF	20%	25V	
C136	1-124-916-11	ELECT	22MF	20%	50V	
C137	1-102-973-00	CERAMIC	100PF	5%	50V	
C138	1-124-907-11	ELECT	10MF	20%	50V	
C139	1-124-360-00	ELECT	1000MF	20%	16V	
C140	1-136-169-00	FILM	0.22MF	5%	50V	
C141	1-130-471-00	MYLAR	0.001MF	5%	50V	
C142	1-125-499-11	ELECT(BLOCK)	220MF	20%	200V	
C143	1-102-824-00	CERAMIC	470PF	5%	50V	
C144	1-136-165-00	FILM	0.1MF	5%	50V	
C145	1-136-153-00	FILM	0.01MF	5%	50V	
C146	1-136-173-00	FILM	0.47MF	5%	50V	
C147	1-136-173-00	FILM	0.47MF	5%	50V	
C148	1-126-101-11	ELECT	100MF	20%	16V	
C149	1-124-907-11	ELECT	10MF	20%	50V	
C150	1-130-471-00	MYLAR	0.001MF	5%	50V	
C151	1-124-903-11	ELECT	1MF	20%	50V	
C152	1-136-165-00	FILM	0.1MF	5%	50V	
C153	1-124-034-51	ELECT	33MF	20%	16V	
C154	1-136-165-00	FILM	0.1MF	5%	50V	
C155	1-136-153-00	FILM	0.01MF	5%	50V	
C156	1-136-165-00	FILM	0.1MF	5%	50V	
C157	1-136-157-00	FILM	0.022MF	5%	50V	
C158	1-124-046-00	ELECT	10MF		160V	
C159	1-124-808-51	ELECT	10MF	20%	200V	
C160	1-136-111-00	FILM	1MF	5%	200V	
C161	1-124-903-11	ELECT	1MF	20%	50V	
C162	1-136-111-00	FILM	1MF	5%	200V	
C163	1-124-907-11	ELECT	10MF	20%	50V	
C164	1-124-907-11	ELECT	10MF	20%	50V	
C165	1-124-907-11	ELECT	10MF	20%	50V	
C166	1-124-907-11	ELECT	10MF	20%	50V	
C167	1-102-824-00	CERAMIC	470PF	5%	50V	
C168	1-136-153-00	FILM	0.01MF	5%	50V	
C169	1-124-768-11	ELECT	4.7MF	20%	50V	
C170	1-124-034-51	ELECT	33MF	20%	16V	
C171	1-136-165-00	FILM	0.1MF	5%	50V	
C172	1-124-907-11	ELECT	10MF	20%	50V	
C173	1-124-034-51	ELECT	33MF	20%	16V	

REF.NO.	PART NO.	DESCRIPTION			REMARK
C174	1-124-034-51	ELECT	33MF	20%	16V
C175	1-130-706-00	FILM	0.008MF	3%	1.6KV
C176	1-106-391-12	MYLAR	0.1MF	10%	200V
C177	1-124-907-11	ELECT	10MF	20%	50V
C178	1-101-004-00	CERAMIC	0.01MF		50V

<DIODE>

REF.NO.	PART NO.	DESCRIPTION	REMARK
D1	8-719-970-89	DIODE DD50R	
D7	8-719-908-20	DIODE ERC88-009	
D8	8-719-908-20	DIODE ERC88-009	
D9	8-719-979-58	DIODE EGP10D	
D10	8-719-979-58	DIODE EGP10D	
D11	8-719-901-19	DIODE V11N	
D12	8-719-979-58	DIODE EGP10D	
D13	8-719-945-81	DIODE ERC06-15SA	
D14	8-719-900-95	DIODE V09G	
D15	8-719-933-02	DIODE ERD33-02	
D103	8-719-911-19	DIODE 1SS119	
D104	8-719-911-19	DIODE 1SS119	
D105	8-719-948-45	DIODE ERA22-08	
D106	8-719-948-45	DIODE ERA22-08	
D107	8-719-911-19	DIODE 1SS119	
D109	8-719-948-45	DIODE ERA22-08	
D110	8-719-911-19	DIODE 1SS119	
D111	8-719-911-19	DIODE 1SS119	
D112	8-719-900-26	DIODE ERD29-08J	
D113	8-719-911-19	DIODE 1SS119	
D114	8-719-110-53	DIODE RD20ESB2	
D115	8-719-110-53	DIODE RD20ESB2	
D116	8-719-920-67	DIODE ERC91-02	
D117	8-719-911-19	DIODE 1SS119	
D118	8-719-948-45	DIODE ERA22-08	
D119	8-719-911-19	DIODE 1SS119	
D120	8-719-911-19	DIODE 1SS119	
D121	8-719-911-19	DIODE 1SS119	
D122	8-719-911-19	DIODE 1SS119	
D123	8-719-911-19	DIODE 1SS119	
D124	8-719-948-45	DIODE ERA22-08	
D126	8-719-110-88	DIODE RD39ESB2	
D127	8-719-110-41	DIODE RD15ESB2	
D128	8-719-110-41	DIODE RD15ESB2	
D129	8-719-110-41	DIODE RD15ESB2	
D130	8-719-110-41	DIODE RD15ESB2	
D131	8-719-911-19	DIODE 1SS119	
D132	8-719-911-19	DIODE 1SS119	
D133	8-719-911-19	DIODE 1SS119	
D134	8-719-300-80	DIODE RU-1C	
D135	8-719-300-80	DIODE RU-1C	
D136	8-719-300-80	DIODE RU-1C	
D137	8-719-300-80	DIODE RU-1C	
D138	8-719-911-19	DIODE 1SS119	
D139	8-719-911-19	DIODE 1SS119	
D140	8-719-911-19	DIODE 1SS119	
D141	8-719-911-19	DIODE 1SS119	
D142	8-719-911-19	DIODE 1SS119	
D143	8-719-911-19	DIODE 1SS119	
D144	8-719-901-19	DIODE V11N	
D145	8-719-911-19	DIODE 1SS119	
D146	8-719-948-45	DIODE ERA22-08	
D149	8-719-911-19	DIODE 1SS119	

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
E-1	*1-564-516-11	PLUG, CONNECTOR 13P	
E-2	*1-564-514-11	PLUG, CONNECTOR 11P	
E-3	*1-564-509-11	PLUG, CONNECTOR 6P	
E-4	*1-580-798-11	CONNECTOR PIN (DY) 6P	
E-5	*1-580-798-11	CONNECTOR PIN (DY) 6P	
E-6	*1-580-798-11	CONNECTOR PIN (DY) 6P	
E-8	*1-580-798-11	CONNECTOR PIN (DY) 6P	
E-9	*1-580-798-11	CONNECTOR PIN (DY) 6P	
E-10	*1-580-798-11	CONNECTOR PIN (DY) 6P	
E-11	1-508-742-00	PIN, CONNECTOR 3P	
E-13	1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P	

<FERRITE BEAD>

REF.NO.	PART NO.	DESCRIPTION	REMARK
FB1	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
FB2	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
FB3	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
FB4	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
FB5	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
FB6	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
FB7	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	

<IC>

REF.NO.	PART NO.	DESCRIPTION	REMARK
IC1	8-759-945-58	IC RC4558P	
IC2	8-759-945-58	IC RC4558P	
IC3	8-759-945-58	IC RC4558P	
IC101	8-759-345-38	IC HD14538BP	
IC103	8-759-109-82	IC UPC814C	
IC104	8-759-945-58	IC RC4558P	
IC105	8-759-945-58	IC RC4558P	
IC106	8-759-945-58	IC RC4558P	
IC107	8-759-014-95	IC MC1495L	
IC108	8-759-945-58	IC RC4558P	
IC109	8-759-701-79	IC NJM7812FA	
IC110	8-759-929-65	IC LM7912CT	
IC111	8-759-100-75	IC UPC1394C	
IC112	8-759-945-58	IC RC4558P	
IC113	8-759-103-93	IC UPC393C	
IC114	8-759-103-93	IC UPC393C	

<COIL>

REF.NO.	PART NO.	DESCRIPTION		REMARK
L100	1-459-483-00	COIL (WITH CORE)		
L102	1-459-155-00	COIL (WITH CORE)	45UH	
L103	1-459-155-00	COIL (WITH CORE)	45UH	
L104	1-459-155-00	COIL (WITH CORE)	45UH	
L106	1-459-483-00	COIL (WITH CORE)		
L107	1-410-093-11	INDUCTOR	33MMH	
L108	1-410-093-11	INDUCTOR	33MMH	
L109	1-459-104-00	COIL, DUST CORE		
L110	1-459-104-00	COIL, DUST CORE		
L111	1-410-093-11	INDUCTOR	33MMH	
L112	1-460-022-11	COIL, CHOKE	1.3MMH	
L113	1-410-680-31	INDUCTOR	330UH	
L114	1-410-686-11	INDUCTOR	1MMH	
L115	1-407-500-00	INDUCTOR	4.7MMH	

<VARIABLE COIL>

REF.NO.	PART NO.	DESCRIPTION	REMARK
LV1	1-460-019-11	COIL, HORIZONTAL ADJUSTMENT	
LV2	1-460-019-11	COIL, HORIZONTAL ADJUSTMENT	
LV3	1-460-019-11	COIL, HORIZONTAL ADJUSTMENT	

E

REF.NO.	PART NO.	DESCRIPTION				REMARK
		<TRANSISTOR>				
Q1	8-729-142-69	TRANSISTOR 2SK817				
Q2	8-729-142-68	TRANSISTOR 2SJ143				
Q3	8-729-142-69	TRANSISTOR 2SK817				
Q4	8-729-142-68	TRANSISTOR 2SJ143				
Q5	8-729-142-69	TRANSISTOR 2SK817				
Q6	8-729-142-68	TRANSISTOR 2SJ143				
Q7	8-729-820-71	TRANSISTOR 2SC3998CA				
Q21	8-729-802-07	TRANSISTOR 2SD1403-CA				
Q22	8-729-119-80	TRANSISTOR 2SC2688-LK				
Q101	8-729-105-74	TRANSISTOR 2SK523-M1				
Q102	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q103	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q104	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q106	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q107	8-729-140-96	TRANSISTOR 2SD774-34				
Q108	8-729-140-97	TRANSISTOR 2SB734-34				
Q109	8-729-105-74	TRANSISTOR 2SK523-M1				
Q110	8-729-143-42	TRANSISTOR 2SK929				
Q111	8-729-143-42	TRANSISTOR 2SK929				
Q112	8-729-142-68	TRANSISTOR 2SJ143				
Q113	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q115	8-729-926-42	TRANSISTOR XDC114ES				
Q116	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q117	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q118	8-729-105-74	TRANSISTOR 2SK523-M1				
Q120	8-729-802-71	TRANSISTOR 2SA1407-D				
Q121	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q127	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q128	8-729-926-42	TRANSISTOR XDC114ES				
Q129	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q130	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q131	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q132	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q133	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q134	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q135	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q136	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q137	8-729-119-80	TRANSISTOR 2SC2688-LK				
Q138	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q139	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q140	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q141	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q142	8-729-143-42	TRANSISTOR 2SK929				
Q143	8-729-119-80	TRANSISTOR 2SC2688-LK				
Q144	8-729-905-86	TRANSISTOR 2SC4054N				
Q145	8-729-402-03	TRANSISTOR 2SK755				
Q146	8-729-119-80	TRANSISTOR 2SC2688-LK				
Q147	8-729-905-86	TRANSISTOR 2SC4054N				
Q148	8-729-802-71	TRANSISTOR 2SA1407-D				
		<RESISTOR>				
R1	1-216-393-00	METAL OXIDE	2.2	5%	3W	F
R2	1-216-393-00	METAL OXIDE	2.2	5%	3W	F
R3	1-216-393-00	METAL OXIDE	2.2	5%	3W	F
R4	1-249-417-11	CARBON	1K	5%	1/4W	
R5	1-215-445-00	METAL	10K	1%	1/4W	
R7	1-215-445-00	METAL	10K	1%	1/4W	
R8	1-215-445-00	METAL	10K	1%	1/4W	
R9	1-215-445-00	METAL	10K	1%	1/4W	
R10	1-249-417-11	CARBON	1K	5%	1/4W	
R11	1-214-824-11	METAL	22	1%	1/2W	
R12	1-214-824-11	METAL	22	1%	1/2W	
R13	1-214-824-11	METAL	22	1%	1/2W	
R14	1-249-417-11	CARBON	1K	5%	1/4W	
R15	1-215-445-00	METAL	10K	1%	1/4W	
R17	1-215-445-00	METAL	10K	1%	1/4W	
R18	1-215-445-00	METAL	10K	1%	1/4W	
R19	1-215-445-00	METAL	10K	1%	1/4W	
R20	1-249-417-11	CARBON	1K	5%	1/4W	
R21	1-214-832-00	METAL	47	1%	1/2W	
R22	1-214-832-00	METAL	47	1%	1/2W	
R23	1-214-832-00	METAL	47	1%	1/2W	
R24	1-249-417-11	CARBON	1K	5%	1/4W	
R25	1-215-445-00	METAL	10K	1%	1/4W	
R27	1-215-445-00	METAL	10K	1%	1/4W	
R28	1-215-445-00	METAL	10K	1%	1/4W	
R29	1-215-445-00	METAL	10K	1%	1/4W	
R30	1-249-417-11	CARBON	1K	5%	1/4W	
R31	1-214-824-11	METAL	22	1%	1/2W	
R32	1-214-824-11	METAL	22	1%	1/2W	
R33	1-214-824-11	METAL	22	1%	1/2W	
R34	1-214-824-11	METAL	22	1%	1/2W	
R35	1-214-824-11	METAL	22	1%	1/2W	
R36	1-214-824-11	METAL	22	1%	1/2W	
R37	1-214-832-00	METAL	47	1%	1/2W	
R38	1-214-832-00	METAL	47	1%	1/2W	
R39	1-214-832-00	METAL	47	1%	1/2W	
R40	1-214-824-11	METAL	22	1%	1/2W	
R41	1-214-824-11	METAL	22	1%	1/2W	
R42	1-214-824-11	METAL	22	1%	1/2W	
R51	1-249-479-11	CARBON	2.7	5%	1/2W	F
R52	1-249-479-11	CARBON	2.7	5%	1/2W	F
R53	1-249-479-11	CARBON	2.7	5%	1/2W	F
R54	1-215-857-11	METAL OXIDE	10	5%	1W	F
R55	1-215-924-00	METAL OXIDE	15K	5%	3W	F
R56	1-247-716-11	CARBON	1.8K	5%	1/4W	F
R57	1-247-807-31	CARBON	100	5%	1/4W	
R58	1-247-807-31	CARBON	100	5%	1/4W	
R59	1-247-807-31	CARBON	100	5%	1/4W	
R60	1-247-807-31	CARBON	100	5%	1/4W	
R61	1-247-807-31	CARBON	100	5%	1/4W	
R62	1-247-807-31	CARBON	100	5%	1/4W	
R63	1-247-712-11	CARBON	820	5%	1/4W	F
R64	1-247-712-11	CARBON	820	5%	1/4W	F
R65	1-247-712-11	CARBON	820	5%	1/4W	F
R66	1-215-905-11	METAL OXIDE	10	5%	3W	F
R67	1-216-397-11	METAL OXIDE	4.7	5%	3W	F
R68	1-216-397-11	METAL OXIDE	4.7	5%	3W	F
R69	1-216-397-11	METAL OXIDE	4.7	5%	3W	F
R101	1-215-457-00	METAL	33K	1%	1/4W	
R102	1-249-429-11	CARBON	10K	5%	1/4W	
R103	1-249-429-11	CARBON	10K	5%	1/4W	
R109	1-249-429-11	CARBON	10K	5%	1/4W	
R110	1-249-417-11	CARBON	1K	5%	1/4W	
R111	1-249-429-11	CARBON	10K	5%	1/4W	
R112	1-249-425-11	CARBON	4.7K	5%	1/4W	
R113	1-247-807-31	CARBON	100	5%	1/4W	
R114	1-249-417-11	CARBON	1K	5%	1/4W	
R115	1-215-445-00	METAL	10K	1%	1/4W	
R116	1-215-445-00	METAL	10K	1%	1/4W	
R117	1-215-433-00	METAL	3.3K	1%	1/4W	
R118	1-249-423-11	CARBON	3.3K	5%	1/4W	
R119	1-215-457-00	METAL	33K	1%	1/4W	
R120	1-215-457-00	METAL	33K	1%	1/4W	

REF.NO.	PART NO.	DESCRIPTION				REMARK
R121	1-215-445-00	METAL	10K	1%	1/4W	
R122	1-249-425-11	CARBON	4.7K	5%	1/4W	
R123	1-215-445-00	METAL	10K	1%	1/4W	
R124	1-215-445-00	METAL	10K	1%	1/4W	
R125	1-215-457-00	METAL	33K	1%	1/4W	
R126	1-215-457-00	METAL	33K	1%	1/4W	
R127	1-215-447-00	METAL	12K	1%	1/4W	
R128	1-215-445-00	METAL	10K	1%	1/4W	
R129	1-215-447-00	METAL	12K	1%	1/4W	
R130	1-249-425-11	CARBON	4.7K	5%	1/4W	
R131	1-215-445-00	METAL	10K	1%	1/4W	
R132	1-215-449-00	METAL	15K	1%	1/4W	
R133	1-249-425-11	CARBON	4.7K	5%	1/4W	
R134	1-215-453-00	METAL	22K	1%	1/4W	
R135	1-249-429-11	CARBON	10K	5%	1/4W	
R136	1-249-423-11	CARBON	3.3K	5%	1/4W	
R137	1-249-423-11	CARBON	3.3K	5%	1/4W	
R138	1-249-423-11	CARBON	3.3K	5%	1/4W	
R139	1-249-425-11	CARBON	4.7K	5%	1/4W	
R140	1-249-417-11	CARBON	1K	5%	1/4W	
R141	1-249-421-11	CARBON	2.2K	5%	1/4W	
R142	1-249-421-11	CARBON	2.2K	5%	1/4W	
R143	1-249-420-11	CARBON	1.8K	5%	1/4W	
R144	1-249-421-11	CARBON	2.2K	5%	1/4W	
R145	1-249-423-11	CARBON	3.3K	5%	1/4W	
R146	1-249-435-11	CARBON	33K	5%	1/4W	
R147	1-249-421-11	CARBON	2.2K	5%	1/4W	
R148	1-249-440-11	CARBON	82K	5%	1/4W	
R149	1-249-417-11	CARBON	1K	5%	1/4W	
R150	1-215-461-00	METAL	47K	1%	1/4W	
R151	1-249-425-11	CARBON	4.7K	5%	1/4W	
R152	1-215-445-00	METAL	10K	1%	1/4W	
R153	1-215-445-00	METAL	10K	1%	1/4W	
R154	1-247-895-00	CARBON	470K	5%	1/4W	
R155	1-249-420-11	CARBON	1.8K	5%	1/4W	
R156	1-249-437-11	CARBON	47K	5%	1/4W	
R157	1-249-413-11	CARBON	470	5%	1/4W	
R158	1-247-807-31	CARBON	100	5%	1/4W	
R159	1-247-807-31	CARBON	100	5%	1/4W	
R160	1-249-417-11	CARBON	1K	5%	1/4W	
R161	1-215-467-00	METAL	82K	1%	1/4W	
R162	1-215-866-11	METAL OXIDE	330	5%	1W	F
R163	1-215-461-00	METAL	47K	1%	1/4W	
R164	1-249-421-11	CARBON	2.2K	5%	1/4W	
R165	1-215-445-00	METAL	10K	1%	1/4W	
R166	1-249-429-11	CARBON	10K	5%	1/4W	
R167	1-249-437-11	CARBON	47K	5%	1/4W	
R168	1-249-429-11	CARBON	10K	5%	1/4W	
R169	1-247-725-11	CARBON	10K	5%	1/4W	F
R170	1-249-425-11	CARBON	4.7K	5%	1/4W	
R171	1-249-417-11	CARBON	1K	5%	1/4W	
R172	1-249-417-11	CARBON	1K	5%	1/4W	
R173	1-216-389-11	METAL OXIDE	1	5%	3W	F
R174	1-216-388-11	METAL OXIDE	0.82	5%	3W	F
R176	1-247-713-11	CARBON	1K	5%	1/4W	F
R177	1-215-445-00	METAL	10K	1%	1/4W	
R178	1-249-417-11	CARBON	1K	5%	1/4W	
R179	1-249-429-11	CARBON	10K	5%	1/4W	
R180	1-215-433-00	METAL	3.3K	1%	1/4W	
R181	1-249-441-11	CARBON	100K	5%	1/4W	
R182	1-249-421-11	CARBON	2.2K	5%	1/4W	
R183	1-247-807-31	CARBON	100	5%	1/4W	
R184	1-249-425-11	CARBON	4.7K	5%	1/4W	
R186	1-249-437-11	CARBON	47K	5%	1/4W	
R187	1-215-461-00	METAL	47K	1%	1/4W	
R191	1-249-423-11	CARBON	3.3K	5%	1/4W	
R192	1-249-433-11	CARBON	22K	5%	1/4W	
R193	1-247-903-00	CARBON	1M	5%	1/4W	
R194	1-249-423-11	CARBON	3.3K	5%	1/4W	
R195	1-249-423-11	CARBON	3.3K	5%	1/4W	
R196	1-247-883-00	CARBON	150K	5%	1/4W	
R197	1-247-807-31	CARBON	100	5%	1/4W	
R198	1-215-447-00	METAL	12K	1%	1/4W	
R199	1-249-423-11	CARBON	3.3K	5%	1/4W	
R201	1-249-417-11	CARBON	1K	5%	1/4W	
R202	1-249-417-11	CARBON	1K	5%	1/4W	
R203	1-249-453-11	CARBON	3.3	5%	1/4W	F
R204	1-249-429-11	CARBON	10K	5%	1/4W	
R205	1-249-427-11	CARBON	6.8K	5%	1/4W	
R206	1-249-429-11	CARBON	10K	5%	1/4W	
R207	1-249-441-11	CARBON	100K	5%	1/4W	
R208	1-216-341-11	METAL OXIDE	0.22	5%	1W	F
R209	1-249-417-11	CARBON	1K	5%	1/4W	
R210	1-215-451-00	METAL	18K	1%	1/4W	
R212	1-249-431-11	CARBON	15K	5%	1/4W	
R213	1-249-429-11	CARBON	10K	5%	1/4W	
R214	1-215-883-11	METAL OXIDE	33	5%	2W	F
R215	1-249-417-11	CARBON	1K	5%	1/4W	
R216	1-249-423-11	CARBON	3.3K	5%	1/4W	
R217	1-249-399-11	CARBON	33	5%	1/4W	
R218	1-249-417-11	CARBON	1K	5%	1/4W	F
R219	1-215-445-00	METAL	10K	1%	1/4W	
R220	1-215-445-00	METAL	10K	1%	1/4W	
R221	1-249-476-11	CARBON	1.5	5%	1/2W	F
R222	1-249-441-11	CARBON	100K	5%	1/4W	
R223	1-249-429-11	CARBON	10K	5%	1/4W	
R224	1-249-429-11	CARBON	10K	5%	1/4W	
R225	1-249-421-11	CARBON	2.2K	5%	1/4W	
R226	1-215-445-00	METAL	10K	1%	1/4W	
R227	1-249-429-11	CARBON	10K	5%	1/4W	
R228	1-249-429-11	CARBON	10K	5%	1/4W	
R229	1-249-429-11	CARBON	10K	5%	1/4W	
R230	1-249-443-11	CARBON	0.47	5%	1/4W	F
R231	1-249-443-11	CARBON	0.47	5%	1/4W	F
R232	1-249-437-11	CARBON	47K	5%	1/4W	
R233	1-249-417-11	CARBON	1K	5%	1/4W	
R234	1-249-417-11	CARBON	1K	5%	1/4W	
R235	1-249-437-11	CARBON	47K	5%	1/4W	
R236	1-249-437-11	CARBON	47K	5%	1/4W	
R237	1-249-441-11	CARBON	100K	5%	1/4W	
R238	1-249-399-11	CARBON	33	5%	1/4W	
R239	1-249-423-11	CARBON	3.3K	5%	1/4W	
R240	1-249-441-11	CARBON	100K	5%	1/4W	
R241	1-249-437-11	CARBON	47K	5%	1/4W	
R242	1-215-461-00	METAL	47K	1%	1/4W	
R243	1-215-469-00	METAL	100K	1%	1/4W	
R244	1-249-423-11	CARBON	3.3K	5%	1/4W	
R245	1-216-441-00	METAL OXIDE	27K	5%	1W	F
R246	1-215-435-00	METAL	3.9K	1%	1/4W	
R247	1-249-421-11	CARBON	2.2K	5%	1/4W	
R248	1-249-425-11	CARBON	4.7K	5%	1/4W	
R249	1-215-421-00	METAL	1K	1%	1/4W	
R250	1-215-445-00	METAL	10K	1%	1/4W	
R251	1-247-887-00	CARBON	220K	5%	1/4W	
R252	1-249-429-11	CARBON	10K	5%	1/4W	
R254	1-247-807-31	CARBON	100	5%	1/4W	
R255	1-249-417-11	CARBON	1K	5%	1/4W	

E **DA**

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

REF.NO.	PART NO.	DESCRIPTION				REMARK
R256	1-249-441-11	CARBON	100K	5%	1/4W	
R257	1-249-437-11	CARBON	47K	5%	1/4W	
R258	1-215-435-00	METAL	3.9K	1%	1/4W	
R259	1-215-439-00	METAL	5.6K	1%	1/4W	
R260	1-215-445-00	METAL	10K	1%	1/4W	
R261	1-249-429-11	CARBON	10K	5%	1/4W	
R262	1-247-807-31	CARBON	100	5%	1/4W	
R263	1-215-878-00	METAL OXIDE	33K	5%	1W	F
R264	1-249-429-11	CARBON	10K	5%	1/4W	
R265	1-247-807-31	CARBON	100	5%	1/4W	
R266	1-249-441-11	CARBON	100K	5%	1/4W	
R267	1-215-379-00	METAL	18	1%	1/4W	
R268	1-215-379-00	METAL	18	1%	1/4W	
R269	1-215-421-00	METAL	1K	1%	1/4W	
R270	1-215-421-00	METAL	1K	1%	1/4W	
R271	1-215-924-00	METAL OXIDE	15K	5%	3W	F
R272	1-249-453-11	CARBON	3.3	5%	1/4W	F
R273	1-249-429-11	CARBON	10K	5%	1/4W	
R274	1-249-429-11	CARBON	10K	5%	1/4W	
R275	1-249-429-11	CARBON	10K	5%	1/4W	
R276	1-249-429-11	CARBON	10K	5%	1/4W	
R281	1-249-451-11	CARBON	2.2	5%	1/4W	F
R282	1-249-451-11	CARBON	2.2	5%	1/4W	F
R283	1-249-425-11	CARBON	4.7K	5%	1/4W	
R284	1-215-467-00	METAL	82K	1%	1/4W	
R285	1-215-445-00	METAL	10K	1%	1/4W	
R286	1-215-911-11	METAL OXIDE	100	5%	3W	F
R287	1-202-727-00	SOLID	4.7M	10%	1/2W	
R288	1-202-727-00	SOLID	4.7M	10%	1/2W	
R289	1-202-727-00	SOLID	4.7M	10%	1/2W	
R290	1-202-727-00	SOLID	4.7M	10%	1/2W	
R296	1-249-429-11	CARBON	10K	5%	1/4W	

<VARIABLE RESISTOR>

RV104 1-228-997-00 RES, ADJ, CARBON 100K (SIZE DET)

<TRANSFORMER>

T2	⚠	1-439-479-11	TRANSFORMER, LINE OUTPUT
T3		1-437-078-00	TRANSFORMER, HORIZONTAL DRIVE
T102	⚠	1-439-480-11	TRANSFORMER, HORIZONTAL OUTPUT
T103		1-437-144-11	TRANSFORMER, FERRITE (HDT)
T104		1-437-144-11	TRANSFORMER, FERRITE (HDT)
T105		1-424-290-11	TRANSFORMER, DRIVE

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*A-1346-191-A DA BOARD, COMPLETE
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4-382-854-11 SCREW (M3X10), P, SW (+)

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
C1	1-124-907-11	ELECT	10MF	20%	50V	
C2	1-126-101-11	ELECT	100MF	20%	16V	
C3	1-124-907-11	ELECT	10MF	20%	50V	
C4	1-126-101-11	ELECT	100MF	20%	16V	
C5	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C6	1-163-125-00	CERAMIC CHIP	220PF	5%	50V	
C7	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C8	1-124-903-11	ELECT	1MF	20%	50V	
C9	1-130-483-00	MYLAR	0.01MF	5%	50V	
C10	1-124-903-11	ELECT	1MF	20%	50V	
C11	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C12	1-124-903-11	ELECT	1MF	20%	50V	
C13	1-130-483-00	MYLAR	0.01MF	5%	50V	
C14	1-124-907-11	ELECT	10MF	20%	50V	
C15	1-163-243-11	CERAMIC CHIP	47PF	5%	50V	
C16	1-163-243-11	CERAMIC CHIP	47PF	5%	50V	
C17	1-136-165-00	FILM	0.1MF	5%	50V	
C18	1-163-235-11	CERAMIC CHIP	22PF	5%	50V	
C19	1-124-903-11	ELECT	1MF	20%	50V	
C20	1-130-483-00	MYLAR	0.01MF	5%	50V	
C21	1-124-903-11	ELECT	1MF	20%	50V	
C22	1-124-925-11	ELECT	2.2MF	20%	50V	
C23	1-124-907-11	ELECT	10MF	20%	50V	
C24	1-124-907-11	ELECT	10MF	20%	50V	
C25	1-163-243-11	CERAMIC CHIP	47PF	5%	50V	
C26	1-124-903-11	ELECT	1MF	20%	50V	
C27	1-130-483-00	MYLAR	0.01MF	5%	50V	
C28	1-124-903-11	ELECT	1MF	20%	50V	
C29	1-124-925-11	ELECT	2.2MF	20%	50V	
C30	1-124-907-11	ELECT	10MF	20%	50V	
C31	1-124-907-11	ELECT	10MF	20%	50V	
C32	1-124-907-11	ELECT	10MF	20%	50V	
C33	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C34	1-124-927-11	ELECT	4.7MF	20%	50V	
C35	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C36	1-108-792-11	MYLAR	0.001MF	5%	50V	
C38	1-124-925-11	ELECT	2.2MF	20%	50V	
C39	1-124-907-11	ELECT	10MF	20%	50V	
C40	1-126-101-11	ELECT	100MF	20%	16V	
C41	1-130-483-00	MYLAR	0.01MF	5%	50V	
C42	1-124-927-11	ELECT	4.7MF	20%	50V	
C43	1-124-907-11	ELECT	10MF	20%	50V	
C44	1-126-101-11	ELECT	100MF	20%	16V	
C45	1-130-483-00	MYLAR	0.01MF	5%	50V	
C46	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C48	1-124-927-11	ELECT	4.7MF	20%	50V	
C49	1-126-101-11	ELECT	100MF	20%	16V	
C50	1-130-483-00	MYLAR	0.01MF	5%	50V	
C51	1-163-235-11	CERAMIC CHIP	22PF	5%	50V	
C52	1-108-792-11	MYLAR	0.001MF	5%	50V	
C53	1-124-925-11	ELECT	2.2MF	20%	50V	
C54	1-124-120-11	ELECT	220MF	20%	16V	
C55	1-163-125-00	CERAMIC CHIP	220PF	5%	50V	
C56	1-163-253-11	CERAMIC CHIP	120PF	5%	50V	
C57	1-124-925-11	ELECT	2.2MF	20%	50V	
C58	1-124-925-11	ELECT	2.2MF	20%	50V	
C59	1-124-925-11	ELECT	2.2MF	20%	50V	
C60	1-124-927-11	ELECT	4.7MF	20%	50V	
C61	1-124-917-11	ELECT	33MF	20%	50V	
C62	1-124-916-11	ELECT	22MF	20%	50V	
C63	1-124-925-11	ELECT	2.2MF	20%	50V	
C64	1-124-119-00	ELECT	330MF	20%	16V	
C65	1-163-031-11	CERAMIC CHIP	0.01MF		50V	
C66	1-130-471-00	FILM	0.001MF	5%	50V	
C67	1-130-471-00	FILM	0.001MF	5%	50V	
C68	1-124-927-11	ELECT	4.7MF	20%	50V	
C69	1-108-796-11	MYLAR	0.0022MF	5%	50V	
C70	1-106-359-00	MYLAR	0.0047MF	5%	50V	
C71	1-124-910-11	ELECT	47MF	20%	50V	
C72	1-124-907-11	ELECT	10MF	20%	50V	
C73	1-136-165-00	FILM	0.1MF	5%	50V	
C74	1-124-927-11	ELECT	4.7MF	20%	50V	
C75	1-124-903-11	ELECT	1MF	20%	50V	

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REF.NO.	PART NO.	DESCRIPTION			REMARK
C76	1-124-907-11	ELECT	10MF	20%	50V
C77	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C78	1-124-907-11	ELECT	10MF	20%	50V
C79	1-124-907-11	ELECT	10MF	20%	50V
C80	1-124-907-11	ELECT	10MF	20%	50V
C81	1-124-907-11	ELECT	10MF	20%	50V
C82	1-124-907-11	ELECT	10MF	20%	50V
C83	1-124-907-11	ELECT	10MF	20%	50V
C84	1-136-173-00	FILM	0.47MF	5%	50V
C101	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C106	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C107	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C108	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C109	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C110	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C111	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C112	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C113	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C114	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C115	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C116	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C117	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C118	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C201	1-124-907-11	ELECT	10MF	20%	50V
C202	1-130-483-00	MYLAR	0.01MF	5%	50V
C203	1-136-165-00	FILM	0.1MF	5%	50V
C204	1-124-927-11	ELECT	4.7MF	20%	50V
C205	1-124-903-11	ELECT	1MF	20%	50V
C206	1-124-903-11	ELECT	1MF	20%	50V
C207	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C208	1-124-903-11	ELECT	1MF	20%	50V
C209	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C210	1-124-907-11	ELECT	10MF	20%	50V
C211	1-124-910-11	ELECT	47MF	20%	50V
C212	1-124-916-11	ELECT	22MF	20%	50V
C213	1-124-925-11	ELECT	2.2MF	20%	50V
C214	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C215	1-124-925-11	ELECT	2.2MF	20%	50V
C216	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C217	1-124-925-11	ELECT	2.2MF	20%	50V
C218	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C219	1-124-925-11	ELECT	2.2MF	20%	50V
C220	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C221	1-124-927-11	ELECT	4.7MF	20%	50V
C222	1-124-907-11	ELECT	10MF	20%	50V
C223	1-124-925-11	ELECT	2.2MF	20%	50V
C224	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C225	1-124-925-11	ELECT	2.2MF	20%	50V
C226	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C240	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C251	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C253	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C254	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C255	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C256	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C257	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C258	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C259	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C260	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C261	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C262	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C263	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C264	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C265	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C266	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C267	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C268	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C269	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C270	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C271	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C272	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C273	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C274	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C275	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C276	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C277	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C278	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C279	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C280	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C281	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C282	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C401	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C402	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C403	1-124-927-11	ELECT	4.7MF	20%	50V
C404	1-124-927-11	ELECT	4.7MF	20%	50V
C451	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C452	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C601	1-124-907-11	ELECT	10MF	20%	50V
C602	1-124-907-11	ELECT	10MF	20%	50V
C603	1-124-907-11	ELECT	10MF	20%	50V
C651	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C652	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C701	1-124-925-11	ELECT	2.2MF	20%	50V
C702	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C703	1-124-925-11	ELECT	2.2MF	20%	50V
C704	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C801	1-126-101-11	ELECT	100MF	20%	16V
C802	1-126-101-11	ELECT	100MF	20%	16V

<DIODE>

REF.NO.	PART NO.	DESCRIPTION	REMARK
D1	8-719-900-95	DIODE V09G	
D2	8-719-900-95	DIODE V09G	
D3	8-719-106-71	DIODE RD12M-B2	
D4	8-719-400-18	DIODE MA152WK	
D5	8-719-105-82	DIODE RD5.1M-B2	
D6	8-719-400-18	DIODE MA152WK	
D7	8-719-400-18	DIODE MA152WK	
D8	8-719-104-34	DIODE 1S2836	
D9	8-719-948-45	DIODE ERA22-08	
D10	8-719-400-18	DIODE MA152WK	
D11	8-719-400-18	DIODE MA152WK	
D12	8-719-400-18	DIODE MA152WK	
D13	8-719-400-18	DIODE MA152WK	
D15	8-719-400-18	DIODE MA152WK	
D16	8-719-400-18	DIODE MA152WK	
D201	8-719-800-76	DIODE 1SS226	
D202	8-719-400-18	DIODE MA152WK	
D203	8-719-400-18	DIODE MA152WK	
D204	8-719-400-18	DIODE MA152WK	
D205	8-719-800-76	DIODE 1SS226	
D206	8-719-400-18	DIODE MA152WK	
D207	8-719-400-18	DIODE MA152WK	
D401	8-719-400-18	DIODE MA152WK	
D402	8-719-400-18	DIODE MA152WK	
D602	8-719-400-18	DIODE MA152WK	
D701	8-719-400-18	DIODE MA152WK	

DA

REF.NO.	PART NO.	DESCRIPTION	REMARK
		<CONNECTOR>	
DA1	*1-568-984-11	CONNECTOR, MALE 96P	
		<IC>	
IC1	8-759-701-79	IC NJM7812FA	
IC2	8-759-700-69	IC NJM79L12A	
IC3	8-759-300-78	IC HD14538BFP	
IC4	8-759-100-96	IC UPC4558G2	
IC5	8-759-300-78	IC HD14538BFP	
IC6	8-759-100-96	IC UPC4558G2	
IC7	8-759-100-93	IC UPC393G2	
IC8	8-759-300-78	IC HD14538BFP	
IC9	8-759-114-06	IC UPC814G2-1	
IC10	8-759-300-78	IC HD14538BFP	
IC11	8-759-100-93	IC UPC393G2	
IC12	8-759-300-71	IC HD14053BFP	
IC13	8-759-300-78	IC HD14538BFP	
IC14	8-759-100-93	IC UPC393G2	
IC15	8-749-922-79	IC MC-8638	
IC16	8-749-922-80	IC MC-8639	
IC17	8-759-100-93	IC UPC393G2	
IC18	8-759-114-06	IC UPC814G2-1	
IC20	8-759-114-06	IC UPC814G2-1	
IC21	8-759-114-06	IC UPC814G2-1	
IC22	8-759-100-60	IC UPC1377C	
IC201	8-752-033-65	IC CXA1158P	
IC202	8-759-925-74	IC SN74HC04ANS	
IC203	8-759-114-06	IC UPC814G2-1	
IC204	8-759-114-06	IC UPC814G2-1	
IC205	8-759-114-06	IC UPC814G2-1	
IC206	8-759-114-06	IC UPC814G2-1	
IC207	8-759-114-06	IC UPC814G2-1	
IC208	8-759-100-96	IC UPC4558G2	
IC209	8-759-100-96	IC UPC4558G2	
IC210	8-759-100-96	IC UPC4558G2	
IC211	8-759-114-06	IC UPC814G2-1	
IC212	8-759-114-06	IC UPC814G2-1	
IC213	8-759-300-71	IC HD14053BFP	
IC214	8-759-114-06	IC UPC814G2-1	
IC215	8-759-114-06	IC UPC814G2-1	
IC216	8-759-114-06	IC UPC814G2-1	
IC401	8-759-114-06	IC UPC814G2-1	
IC402	8-759-926-11	IC SN74HC138ANS	
IC601	8-759-100-96	IC UPC4558G2	
IC701	8-759-114-06	IC UPC814G2-1	
		<COIL>	
L1	1-459-155-00	COIL (WITH CORE) 45UH	
L2	1-459-155-00	COIL (WITH CORE) 45UH	
L801	1-459-155-00	COIL (WITH CORE) 45UH	
L802	1-459-155-00	COIL (WITH CORE) 45UH	
		<TRANSISTOR>	
Q1	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2	8-729-216-22	TRANSISTOR 2SA1162-G	
Q3	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q4	8-729-216-22	TRANSISTOR 2SA1162-G	
Q5	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q6	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q7	8-729-216-22	TRANSISTOR 2SA1162-G	
Q8	8-729-216-22	TRANSISTOR 2SA1162-G	
Q9	8-729-105-74	TRANSISTOR 2SK523-M1	
Q10	8-729-216-22	TRANSISTOR 2SA1162-G	
Q11	8-729-216-22	TRANSISTOR 2SA1162-G	
Q12	8-729-216-22	TRANSISTOR 2SA1162-G	
Q13	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q14	8-729-901-01	TRANSISTOR DTC144EK	
Q15	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q16	8-729-926-23	TRANSISTOR FMW5	
Q17	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q18	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q19	8-729-904-04	TRANSISTOR FMS2	
Q20	8-729-926-23	TRANSISTOR FMW5	
Q21	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q22	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q201	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q202	8-729-216-22	TRANSISTOR 2SA1162-G	
Q203	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q204	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q205	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q206	8-729-903-82	TRANSISTOR FMW2	
Q207	8-729-920-59	TRANSISTOR IMX2	
Q208	8-729-904-04	TRANSISTOR FMS2	
Q209	8-729-926-23	TRANSISTOR FMW5	
Q210	8-729-926-23	TRANSISTOR FMW5	
Q211	8-729-920-59	TRANSISTOR IMX2	
Q212	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q213	8-729-216-22	TRANSISTOR 2SA1162-G	
Q214	8-729-926-23	TRANSISTOR FMW5	
Q215	8-729-216-22	TRANSISTOR 2SA1162-G	
Q216	8-729-903-82	TRANSISTOR FMW2	
Q217	8-729-920-59	TRANSISTOR IMX2	
Q218	8-729-904-04	TRANSISTOR FMS2	
Q219	8-729-926-23	TRANSISTOR FMW5	
Q220	8-729-926-23	TRANSISTOR FMW5	
Q221	8-729-920-59	TRANSISTOR IMX2	
Q222	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q223	8-729-216-22	TRANSISTOR 2SA1162-G	
Q224	8-729-903-82	TRANSISTOR FMW2	
Q225	8-729-920-59	TRANSISTOR IMX2	
Q226	8-729-904-04	TRANSISTOR FMS2	
Q227	8-729-926-23	TRANSISTOR FMW5	
Q228	8-729-926-23	TRANSISTOR FMW5	
Q229	8-729-920-59	TRANSISTOR IMX2	
Q230	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q231	8-729-216-22	TRANSISTOR 2SA1162-G	
Q232	8-729-902-96	TRANSISTOR FMS1	
Q233	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q234	8-729-902-96	TRANSISTOR FMS1	
Q235	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q236	8-729-926-23	TRANSISTOR FMW5	
Q237	8-729-216-22	TRANSISTOR 2SA1162-G	
Q238	8-729-926-23	TRANSISTOR FMW5	
Q239	8-729-216-22	TRANSISTOR 2SA1162-G	
Q401	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q402	8-729-216-22	TRANSISTOR 2SA1162-G	
Q602	8-729-926-23	TRANSISTOR FMW5	
Q603	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q604	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q605	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q701	8-729-903-82	TRANSISTOR FMW2	
Q702	8-729-920-59	TRANSISTOR IMX2	

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q703	8-729-904-04	TRANSISTOR FMS2	
Q704	8-729-926-23	TRANSISTOR FMW5	
Q705	8-729-926-23	TRANSISTOR FMW5	
Q706	8-729-920-59	TRANSISTOR IMX2	
Q707	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q708	8-729-216-22	TRANSISTOR 2SA1162-G	
Q709	8-729-904-04	TRANSISTOR FMS2	
Q801	8-729-205-96	TRANSISTOR 2SC3668-O	
Q802	8-729-205-95	TRANSISTOR 2SA1428-Y	
Q803	8-729-901-01	TRANSISTOR DTC144EK	

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
R1	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R2	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W	
R3	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R4	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R5	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W	
R6	1-216-681-11	METAL CHIP	18K	0.50%	1/10W	
R7	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R8	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R9	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R10	1-216-109-00	METAL GLAZE	330K	5%	1/10W	
R11	1-216-093-00	METAL GLAZE	68K	5%	1/10W	
R12	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R13	1-216-699-11	METAL CHIP	100K	0.50%	1/10W	
R14	1-216-099-00	METAL GLAZE	120K	5%	1/10W	
R15	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R16	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R17	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R18	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R19	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R20	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R21	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R22	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R23	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R24	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R25	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R26	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R27	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R28	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R29	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R30	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R31	1-216-099-00	METAL GLAZE	120K	5%	1/10W	
R32	1-216-105-00	METAL GLAZE	220K	5%	1/10W	
R33	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R34	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R35	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R36	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R37	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R38	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R39	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R40	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R41	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R42	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R43	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R44	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R45	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R46	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R47	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R48	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R49	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R50	1-216-675-11	METAL CHIP	10K	0.50%	1/10W	
R51	1-216-685-11	METAL CHIP	27K	0.50%	1/10W	
R52	1-216-693-11	METAL CHIP	56K	0.50%	1/10W	
R53	1-216-677-11	METAL CHIP	12K	0.50%	1/10W	
R54	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R55	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R56	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R57	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R58	1-216-679-11	METAL CHIP	15K	0.50%	1/10W	
R59	1-216-693-11	METAL CHIP	56K	0.50%	1/10W	
R60	1-216-677-11	METAL CHIP	12K	0.50%	1/10W	
R61	1-216-675-11	METAL CHIP	10K	0.50%	1/10W	
R62	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R63	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R64	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R65	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R66	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R67	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R68	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R69	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R70	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R71	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R72	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R73	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R74	1-216-101-00	METAL GLAZE	150K	5%	1/10W	
R75	1-216-095-00	METAL GLAZE	82K	5%	1/10W	
R76	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R77	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R78	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R79	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R80	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R81	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R82	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R83	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R84	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R85	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R86	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R87	1-216-075-00	METAL GLAZE	12K	5%	1/10W	
R88	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R89	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R90	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R91	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R92	1-216-661-11	METAL CHIP	2.7K	0.50%	1/10W	
R93	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R94	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R95	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R96	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R97	1-216-101-00	METAL GLAZE	150K	5%	1/10W	
R98	1-216-091-00	METAL GLAZE	56K	5%	1/10W	
R99	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R100	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R101	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R102	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R103	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R104	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R105	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R106	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R107	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R108	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R109	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R110	1-216-673-11	METAL CHIP	8.2K	0.50%	1/10W	
R111	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R112	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R113	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R114	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R115	1-216-049-00	METAL GLAZE	1K	5%	1/10W	

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REF.NO.	PART NO.	DESCRIPTION				REMARK
R116	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R117	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R118	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R119	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R120	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R121	1-216-101-00	METAL GLAZE	150K	5%	1/10W	
R122	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R123	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R124	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R125	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R126	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R127	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R128	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R129	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R130	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R132	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R133	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R134	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R135	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R136	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R137	1-216-035-00	METAL GLAZE	270	5%	1/10W	
R138	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W	
R139	1-216-699-11	METAL CHIP	100K	0.50%	1/10W	
R140	1-216-675-11	METAL CHIP	10K	0.50%	1/10W	
R141	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R142	1-216-047-00	METAL GLAZE	820	5%	1/10W	
R143	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R144	1-216-677-11	METAL CHIP	12K	0.50%	1/10W	
R145	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R146	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R147	1-216-685-11	METAL CHIP	27K	0.50%	1/10W	
R148	1-216-675-11	METAL CHIP	10K	0.50%	1/10W	
R149	1-216-675-11	METAL CHIP	10K	0.50%	1/10W	
R150	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R151	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R152	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R153	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R154	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R155	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R156	1-216-681-11	METAL CHIP	18K	0.50%	1/10W	
R157	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W	
R158	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R159	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R160	1-216-013-00	METAL GLAZE	33	5%	1/10W	
R161	1-216-697-11	METAL CHIP	82K	0.50%	1/10W	
R162	1-216-697-11	METAL CHIP	82K	0.50%	1/10W	
R163	1-216-643-11	METAL CHIP	470	0.50%	1/10W	
R164	1-216-697-11	METAL CHIP	82K	0.50%	1/10W	
R165	1-216-697-11	METAL CHIP	82K	0.50%	1/10W	
R166	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W	
R167	1-216-699-11	METAL CHIP	100K	0.50%	1/10W	
R168	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R169	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R170	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R171	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R172	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R173	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R174	1-216-699-11	METAL CHIP	100K	0.50%	1/10W	
R176	1-216-675-11	METAL CHIP	10K	0.50%	1/10W	
R177	1-216-693-11	METAL CHIP	56K	0.50%	1/10W	
R178	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W	
R179	1-216-661-11	METAL CHIP	2.7K	0.50%	1/10W	
R180	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R181	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	

REF.NO.	PART NO.	DESCRIPTION				REMARK
R182	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R201	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R202	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R203	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R204	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R205	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R206	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R207	1-216-699-11	METAL CHIP	100K	0.50%	1/10W	
R208	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R209	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R210	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R211	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R212	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R213	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R214	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R215	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R216	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R217	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R218	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R219	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R220	1-216-101-00	METAL GLAZE	150K	5%	1/10W	
R221	1-216-699-11	METAL CHIP	100K	0.50%	1/10W	
R222	1-216-683-11	METAL CHIP	22K	0.50%	1/10W	
R223	1-216-101-00	METAL GLAZE	150K	5%	1/10W	
R224	1-216-093-00	METAL GLAZE	68K	5%	1/10W	
R225	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R226	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R227	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R228	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R229	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R230	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R231	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R232	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R233	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R234	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R235	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R236	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R237	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R238	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W	
R239	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R240	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R241	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R242	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W	
R243	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R244	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R245	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R246	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W	
R247	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R248	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R249	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R250	1-216-641-11	METAL CHIP	390	0.50%	1/10W	
R251	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R252	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R253	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R254	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R255	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R256	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R257	1-216-683-11	METAL CHIP	22K	0.50%	1/10W	
R258	1-216-683-11	METAL CHIP	22K	0.50%	1/10W	
R259	1-216-675-11	METAL CHIP	10K	0.50%	1/10W	
R260	1-216-675-11	METAL CHIP	10K	0.50%	1/10W	
R261	1-216-691-11	METAL CHIP	47K	0.50%	1/10W	
R262	1-216-691-11	METAL CHIP	47K	0.50%	1/10W	

REF.NO.	PART NO.	DESCRIPTION				REMARK
R263	1-216-691-11	METAL CHIP	47K	0.50%	1/10W	
R264	1-216-691-11	METAL CHIP	47K	0.50%	1/10W	
R265	1-216-635-11	METAL CHIP	220	0.50%	1/10W	
R266	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	
R267	1-216-627-11	METAL CHIP	100	0.50%	1/10W	
R268	1-216-643-11	METAL CHIP	470	0.50%	1/10W	
R269	1-216-639-11	METAL CHIP	330	0.50%	1/10W	
R270	1-216-643-11	METAL CHIP	470	0.50%	1/10W	
R271	1-216-615-11	METAL CHIP	33	0.50%	1/10W	
R272	1-216-615-11	METAL CHIP	33	0.50%	1/10W	
R273	1-216-627-11	METAL CHIP	100	0.50%	1/10W	
R274	1-216-643-11	METAL CHIP	470	0.50%	1/10W	
R275	1-216-639-11	METAL CHIP	330	0.50%	1/10W	
R276	1-216-643-11	METAL CHIP	470	0.50%	1/10W	
R277	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R278	1-216-669-11	METAL CHIP	5.6K	0.50%	1/10W	
R279	1-216-643-11	METAL CHIP	470	0.50%	1/10W	
R280	1-216-675-11	METAL CHIP	10K	0.50%	1/10W	
R281	1-216-675-11	METAL CHIP	10K	0.50%	1/10W	
R282	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	
R283	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R284	1-216-627-11	METAL CHIP	100	0.50%	1/10W	
R285	1-216-627-11	METAL CHIP	100	0.50%	1/10W	
R286	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	
R287	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W	
R288	1-216-635-11	METAL CHIP	220	0.50%	1/10W	
R289	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	
R290	1-216-627-11	METAL CHIP	100	0.50%	1/10W	
R291	1-216-643-11	METAL CHIP	470	0.50%	1/10W	
R292	1-216-639-11	METAL CHIP	330	0.50%	1/10W	
R293	1-216-643-11	METAL CHIP	470	0.50%	1/10W	
R294	1-216-615-11	METAL CHIP	33	0.50%	1/10W	
R295	1-216-615-11	METAL CHIP	33	0.50%	1/10W	
R296	1-216-627-11	METAL CHIP	100	0.50%	1/10W	
R297	1-216-643-11	METAL CHIP	470	0.50%	1/10W	
R298	1-216-639-11	METAL CHIP	330	0.50%	1/10W	
R299	1-216-643-11	METAL CHIP	470	0.50%	1/10W	
R300	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R301	1-216-669-11	METAL CHIP	5.6K	0.50%	1/10W	
R302	1-216-647-11	METAL CHIP	680	0.50%	1/10W	
R303	1-216-675-11	METAL CHIP	10K	0.50%	1/10W	
R304	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R305	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W	
R306	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W	
R307	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R308	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W	
R309	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W	
R310	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W	
R311	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W	
R312	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R313	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W	
R314	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W	
R315	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W	
R316	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W	
R317	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W	
R318	1-216-635-11	METAL CHIP	220	0.50%	1/10W	
R319	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	
R320	1-216-627-11	METAL CHIP	100	0.50%	1/10W	
R321	1-216-643-11	METAL CHIP	470	0.50%	1/10W	
R322	1-216-639-11	METAL CHIP	330	0.50%	1/10W	
R323	1-216-643-11	METAL CHIP	470	0.50%	1/10W	
R324	1-216-615-11	METAL CHIP	33	0.50%	1/10W	
R325	1-216-615-11	METAL CHIP	33	0.50%	1/10W	
R326	1-216-627-11	METAL CHIP	100	0.50%	1/10W	
R327	1-216-643-11	METAL CHIP	470	0.50%	1/10W	
R328	1-216-639-11	METAL CHIP	330	0.50%	1/10W	
R329	1-216-643-11	METAL CHIP	470	0.50%	1/10W	
R330	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R331	1-216-669-11	METAL CHIP	5.6K	0.50%	1/10W	
R332	1-216-643-11	METAL CHIP	470	0.50%	1/10W	
R334	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R335	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R336	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R337	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R338	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R339	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R340	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R341	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R342	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R343	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R344	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R345	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R346	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R347	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R348	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R349	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R350	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R351	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R352	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R353	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R354	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R355	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R356	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R357	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R358	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R359	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R360	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R361	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R364	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R365	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R366	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R368	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R369	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R370	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R401	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R402	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R403	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R404	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R405	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R406	1-216-101-00	METAL GLAZE	150K	5%	1/10W	
R407	1-216-699-11	METAL CHIP	100K	0.50%	1/10W	
R408	1-216-687-11	METAL CHIP	33K	0.50%	1/10W	
R409	1-216-101-00	METAL GLAZE	150K	5%	1/10W	
R410	1-216-699-11	METAL CHIP	100K	0.50%	1/10W	
R411	1-216-687-11	METAL CHIP	33K	0.50%	1/10W	
R412	1-216-675-11	METAL CHIP	10K	0.50%	1/10W	
R413	1-216-675-11	METAL CHIP	10K	0.50%	1/10W	
R414	1-216-675-11	METAL CHIP	10K	0.50%	1/10W	
R415	1-216-675-11	METAL CHIP	10K	0.50%	1/10W	
R416	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R417	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R418	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R601	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R602	1-216-691-11	METAL CHIP	47K	0.50%	1/10W	
R603	1-216-691-11	METAL CHIP	47K	0.50%	1/10W	
R604	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R607	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	

REF.NO.	PART NO.	DESCRIPTION				REMARK
R608	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R609	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R610	1-216-679-11	METAL CHIP	15K	0.50%	1/10W	
R611	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R612	1-216-675-11	METAL CHIP	10K	0.50%	1/10W	
R613	1-216-671-11	METAL CHIP	6.8K	0.50%	1/10W	
R614	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R615	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W	
R701	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R702	1-216-689-11	METAL GLAZE	39K	5%	1/10W	
R703	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R704	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R705	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R706	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R707	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R708	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R709	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R710	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R711	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R712	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R713	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R714	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R715	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R716	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R717	1-216-689-11	METAL GLAZE	39K	5%	1/10W	
R718	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R719	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R720	1-216-083-00	METAL GLAZE	27K	5%	1/10W	
R721	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R722	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R723	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R724	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R725	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W	
R726	1-216-039-00	METAL GLAZE	390	5%	1/10W	
R727	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R728	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R729	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R730	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R732	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R733	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R801	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R802	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R803	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R804	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R807	1-216-049-00	METAL GLAZE	1K	5%	1/10W	

<VARIABLE RESISTOR>

REF.NO.	PART NO.	DESCRIPTION
RV1	1-237-503-21	RES, ADJ, CERMET 10K (AFC)
RV2	1-237-503-21	RES, ADJ, CERMET 10K (F-V)
RV3	1-237-501-21	RES, ADJ, CERMET 2K (VIDEO AFC)
RV4	1-237-505-21	RES, ADJ, CERMET 50K (V.HOLD)
RV5	1-237-505-21	RES, ADJ, CERMET 50K (SHIFT)
RV6	1-237-504-21	RES, ADJ, CERMET 20K (FOCUS)

<SWITCH>

REF.NO.	PART NO.	DESCRIPTION
S1	1-570-865-11	SWITCH, SLIDE (V SYNC OFF)
S2	1-570-865-11	SWITCH, SLIDE (HD OFF)

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REF.NO.	PART NO.	DESCRIPTION	REMARK
	*A-1346-207-A	DC BOARD, COMPLETE ******************	
	4-382-854-11	SCREW (M3X10), P, SW (+)	
	*4-395-525-01	HOLDER (D), TR	
	*4-395-527-01	HOLDER (B), TR	
	4-874-042-00	SHEET, INSULATING	

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
C1	1-124-122-11	ELECT	100MF	20%	50V	
C2	1-126-101-11	ELECT	100MF	20%	16V	
C3	1-124-122-11	ELECT	100MF	20%	50V	
C4	1-126-101-11	ELECT	100MF	20%	16V	
C5	1-124-122-11	ELECT	100MF	20%	50V	
C6	1-102-963-00	CERAMIC	33PF	5%	50V	
C7	1-102-963-00	CERAMIC	33PF	5%	50V	
C8	1-136-157-00	FILM	0.022MF	5%	50V	
C9	1-124-903-11	ELECT	1MF	20%	50V	
C10	1-124-122-11	ELECT	100MF	20%	50V	
C11	1-102-963-00	CERAMIC	33PF	5%	50V	
C12	1-102-963-00	CERAMIC	33PF	5%	50V	
C13	1-136-157-00	FILM	0.022MF	5%	50V	
C14	1-124-903-11	ELECT	1MF	20%	50V	
C15	1-124-122-11	ELECT	100MF	20%	50V	
C16	1-102-963-00	CERAMIC	33PF	5%	50V	
C17	1-102-963-00	CERAMIC	33PF	5%	50V	
C18	1-136-157-00	FILM	0.022MF	5%	50V	
C19	1-124-903-11	ELECT	1MF	20%	50V	
C20	1-136-173-00	FILM	0.47MF	5%	50V	
C21	1-124-556-11	ELECT	2200MF	20%	16V	
C22	1-124-556-11	ELECT	2200MF	20%	16V	
C24	1-136-165-00	FILM	0.1MF	5%	50V	
C25	1-136-165-00	FILM	0.1MF	5%	50V	
C26	1-136-165-00	FILM	0.1MF	5%	50V	
C27	1-136-165-00	FILM	0.1MF	5%	50V	
C28	1-136-165-00	FILM	0.1MF	5%	50V	
C29	1-136-165-00	FILM	0.1MF	5%	50V	
C30	1-136-165-00	FILM	0.1MF	5%	50V	
C31	1-136-165-00	FILM	0.1MF	5%	50V	
C32	1-136-165-00	FILM	0.1MF	5%	50V	
C33	1-124-477-11	ELECT	47MF	20%	16V	
C34	1-124-903-11	ELECT	1MF	20%	50V	
C35	1-124-360-00	ELECT	1000MF	20%	16V	
C36	1-124-907-11	ELECT	10MF	20%	50V	
C37	1-124-907-11	ELECT	10MF	20%	50V	
C101	1-102-824-00	CERAMIC	470PF	5%	50V	
C102	1-124-903-11	ELECT	1MF	20%	50V	
C103	1-101-004-00	CERAMIC	0.01MF		50V	
C104	1-124-122-11	ELECT	100MF	20%	50V	
C105	1-124-922-11	ELECT	1000MF	20%	50V	
C106	1-124-903-11	ELECT	1MF	20%	50V	
C107	1-101-004-00	CERAMIC	0.01MF		50V	
C108	1-124-122-11	ELECT	100MF	20%	50V	
C109	1-124-922-11	ELECT	1000MF	20%	50V	
C110	1-136-159-00	FILM	0.033MF	5%	50V	
C111	1-136-159-00	FILM	0.033MF	5%	50V	
C201	1-130-473-00	MYLAR	0.0015MF	5%	50V	
C202	1-102-973-00	CERAMIC	100PF	5%	50V	
C203	1-102-973-00	CERAMIC	100PF	5%	50V	
C204	1-136-153-00	FILM	0.01MF	5%	50V	
C205	1-124-477-11	ELECT	47MF	20%	16V	
C206	1-124-122-11	ELECT	100MF	20%	50V	
C207	1-101-004-00	CERAMIC	0.01MF		50V	

REF.NO.	PART NO.	DESCRIPTION			REMARK
C208	1-124-122-11	ELECT	100MF	20%	50V
C209	1-101-004-00	CERAMIC	0.01MF		50V
C210	1-130-473-00	MYLAR	0.0015MF	5%	50V
C211	1-102-973-00	CERAMIC	100PF	5%	50V
C212	1-102-973-00	CERAMIC	100PF	5%	50V
C213	1-136-153-00	FILM	0.01MF	5%	50V
C214	1-124-477-11	ELECT	47MF	20%	16V
C215	1-124-122-11	ELECT	100MF	20%	50V
C216	1-101-004-00	CERAMIC	0.01MF		50V
C217	1-124-122-11	ELECT	100MF	20%	50V
C218	1-101-004-00	CERAMIC	0.01MF		50V
C219	1-130-473-00	MYLAR	0.0015MF	5%	50V
C220	1-102-973-00	CERAMIC	100PF	5%	50V
C221	1-102-973-00	CERAMIC	100PF	5%	50V
C222	1-136-153-00	FILM	0.01MF	5%	50V
C223	1-124-477-11	ELECT	47MF	20%	16V
C224	1-124-122-11	ELECT	100MF	20%	50V
C225	1-101-004-00	CERAMIC	0.01MF		50V
C226	1-124-122-11	ELECT	100MF	20%	50V
C227	1-101-004-00	CERAMIC	0.01MF		50V
C228	1-124-907-11	ELECT	10MF	20%	50V
C229	1-101-004-00	CERAMIC	0.01MF		50V
C230	1-124-907-11	ELECT	10MF	20%	50V
C231	1-101-004-00	CERAMIC	0.01MF		50V
C232	1-124-907-11	ELECT	10MF	20%	50V
C233	1-101-004-00	CERAMIC	0.01MF		50V
C234	1-124-907-11	ELECT	10MF	20%	50V
C235	1-101-004-00	CERAMIC	0.01MF		50V
C236	1-124-907-11	ELECT	10MF	20%	50V
C237	1-101-004-00	CERAMIC	0.01MF		50V
C238	1-124-907-11	ELECT	10MF	20%	50V
C239	1-101-004-00	CERAMIC	0.01MF		50V
C243	1-102-121-00	CERAMIC	0.0022MF	10%	50V
C244	1-102-121-00	CERAMIC	0.0022MF	10%	50V
C245	1-102-121-00	CERAMIC	0.0022MF	10%	50V
C246	1-102-947-00	CERAMIC	10PF	0.5PF	50V
C247	1-130-471-00	MYLAR	0.001MF	5%	50V
C248	1-102-947-00	CERAMIC	10PF	0.5PF	50V
C249	1-130-471-00	MYLAR	0.001MF	5%	50V
C250	1-102-947-00	CERAMIC	10PF	0.5PF	50V
C251	1-130-471-00	MYLAR	0.001MF	5%	50V
C301	1-130-473-00	MYLAR	0.0015MF	5%	50V
C302	1-102-973-00	CERAMIC	100PF	5%	50V
C303	1-102-973-00	CERAMIC	100PF	5%	50V
C304	1-136-153-00	FILM	0.01MF	5%	50V
C305	1-124-477-11	ELECT	47MF	20%	16V
C306	1-124-122-11	ELECT	100MF	20%	50V
C307	1-101-004-00	CERAMIC	0.01MF		50V
C308	1-124-122-11	ELECT	100MF	20%	50V
C309	1-101-004-00	CERAMIC	0.01MF		50V
C310	1-130-473-00	MYLAR	0.0015MF	5%	50V
C311	1-102-973-00	CERAMIC	100PF	5%	50V
C312	1-102-973-00	CERAMIC	100PF	5%	50V
C313	1-136-153-00	FILM	0.01MF	5%	50V
C314	1-124-477-11	ELECT	47MF	20%	16V
C315	1-124-122-11	ELECT	100MF	20%	50V
C316	1-101-004-00	CERAMIC	0.01MF		50V
C317	1-124-122-11	ELECT	100MF	20%	50V
C318	1-101-004-00	CERAMIC	0.01MF		50V
C319	1-130-473-00	MYLAR	0.0015MF	5%	50V
C320	1-102-973-00	CERAMIC	100PF	5%	50V
C321	1-102-973-00	CERAMIC	100PF	5%	50V
C322	1-136-153-00	FILM	0.01MF	5%	50V
C323	1-124-477-11	ELECT	47MF	20%	16V

REF.NO.	PART NO.	DESCRIPTION			REMARK
C324	1-124-477-11	ELECT	47MF	20%	16V
C325	1-101-004-00	CERAMIC	0.01MF		50V
C326	1-124-477-11	ELECT	47MF	20%	16V
C327	1-101-004-00	CERAMIC	0.01MF		50V
C328	1-124-907-11	ELECT	10MF	20%	50V
C329	1-101-004-00	CERAMIC	0.01MF		50V
C330	1-124-907-11	ELECT	10MF	20%	50V
C331	1-101-004-00	CERAMIC	0.01MF		50V
C332	1-124-907-11	ELECT	10MF	20%	50V
C333	1-101-004-00	CERAMIC	0.01MF		50V
C334	1-124-907-11	ELECT	10MF	20%	50V
C335	1-101-004-00	CERAMIC	0.01MF		50V
C336	1-124-907-11	ELECT	10MF	20%	50V
C337	1-101-004-00	CERAMIC	0.01MF		50V
C338	1-124-907-11	ELECT	10MF	20%	50V
C339	1-101-004-00	CERAMIC	0.01MF		50V
C343	1-102-119-00	CERAMIC	0.0015MF	10%	50V
C344	1-102-119-00	CERAMIC	0.0015MF	10%	50V
C345	1-102-119-00	CERAMIC	0.0015MF	10%	50V
C346	1-102-947-00	CERAMIC	10PF	0.5PF	50V
C347	1-130-471-00	MYLAR	0.001MF	5%	50V
C348	1-102-947-00	CERAMIC	10PF	0.5PF	50V
C349	1-130-471-00	MYLAR	0.001MF	5%	50V
C350	1-102-947-00	CERAMIC	10PF	0.5PF	50V
C351	1-130-471-00	MYLAR	0.001MF	5%	50V

<DIODE>

D1	8-719-900-95	DIODE V09G
D2	8-719-900-95	DIODE V09G
D3	8-719-900-95	DIODE V09G
D4	8-719-911-19	DIODE 1SS119
D5	8-719-900-95	DIODE V09G
D6	8-719-911-19	DIODE 1SS119
D7	8-719-900-95	DIODE V09G
D8	8-719-911-19	DIODE 1SS119
D9	8-719-911-19	DIODE 1SS119
D10	8-719-911-19	DIODE 1SS119
D11	8-719-911-19	DIODE 1SS119
D12	8-719-911-19	DIODE 1SS119
D13	8-719-911-19	DIODE 1SS119
D15	8-719-911-19	DIODE 1SS119
D16	8-719-911-19	DIODE 1SS119
D101	8-719-911-19	DIODE 1SS119
D102	8-719-908-20	DIODE ERC88-009
D103	8-719-908-20	DIODE ERC88-009
D104	8-719-911-19	DIODE 1SS119
D105	8-719-908-20	DIODE ERC88-009
D106	8-719-908-20	DIODE ERC88-009
D201	8-719-110-41	DIODE RD15ESB2
D202	8-719-109-66	DIODE RD3.3ESB2
D203	8-719-911-19	DIODE 1SS119
D204	8-719-911-19	DIODE 1SS119
D205	8-719-110-41	DIODE RD15ESB2
D206	8-719-109-66	DIODE RD3.3ESB2
D207	8-719-911-19	DIODE 1SS119
D208	8-719-911-19	DIODE 1SS119
D209	8-719-110-41	DIODE RD15ESB2
D210	8-719-109-66	DIODE RD3.3ESB2
D211	8-719-911-19	DIODE 1SS119
D212	8-719-911-19	DIODE 1SS119
D301	8-719-110-41	DIODE RD15ESB2
D302	8-719-109-66	DIODE RD3.3ESB2

DC

REF.NO.	PART NO.	DESCRIPTION	REMARK
D303	8-719-911-19	DIODE 1SS119	
D304	8-719-911-19	DIODE 1SS119	
D305	8-719-110-41	DIODE RD15ESB2	
D306	8-719-109-66	DIODE RD3.3ESB2	
D307	8-719-911-19	DIODE 1SS119	
D308	8-719-911-19	DIODE 1SS119	
D309	8-719-110-41	DIODE RD15ESB2	
D310	8-719-109-66	DIODE RD3.3ESB2	
D311	8-719-911-19	DIODE 1SS119	
D312	8-719-911-19	DIODE 1SS119	
		<CONNECTOR>	
DC-1	*1-564-514-11	PLUG, CONNECTOR 11P	
DC-2	*1-564-509-11	PLUG, CONNECTOR 6P	
DC-3	*1-564-515-11	PLUG, CONNECTOR 12P	
DC-4	*1-564-507-11	PLUG, CONNECTOR 4P	
DC-5	*1-564-507-11	PLUG, CONNECTOR 4P	
DC-6	*1-564-507-11	PLUG, CONNECTOR 4P	
DC-7	*1-564-507-11	PLUG, CONNECTOR 4P	
DC-8	*1-564-507-11	PLUG, CONNECTOR 4P	
DC-9	*1-564-507-11	PLUG, CONNECTOR 4P	
DC-10	*1-564-508-11	PLUG, CONNECTOR 5P	
DC-11	*1-564-508-11	PLUG, CONNECTOR 5P	
DC-12	*1-564-508-11	PLUG, CONNECTOR 5P	
DC-13	*1-564-509-11	PLUG, CONNECTOR 6P	
DC-14	1-508-742-00	PIN, CONNECTOR 3P	
DC-15	1-508-742-00	PIN, CONNECTOR 3P	
		<FERRITE BEAD>	
FB1	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
FB2	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
FB3	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
FB4	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
		<IC>	
IC1	8-759-701-79	IC NJM7812FA	
IC2	8-759-929-65	IC LM7912CT	
IC3	8-759-945-58	IC RC4558P	
IC4	8-759-113-13	IC UPC1498H	
IC5	8-759-945-58	IC RC4558P	
IC6	8-759-113-13	IC UPC1498H	
IC7	8-759-945-58	IC RC4558P	
IC8	8-759-113-13	IC UPC1498H	
IC9	8-759-945-58	IC RC4558P	
IC101	8-759-109-82	IC UPC814C	
IC102	8-759-109-82	IC UPC814C	
IC103	8-759-109-82	IC UPC814C	
IC201	8-759-973-02	IC LM6364N	
IC202	8-759-973-02	IC LM6364N	
IC203	8-759-973-02	IC LM6364N	
IC301	8-759-973-02	IC LM6364N	
IC302	8-759-973-02	IC LM6364N	
IC303	8-759-973-02	IC LM6364N	
		<COIL>	
L103	1-459-155-00	COIL (WITH CORE) 45UH	
L104	1-459-155-00	COIL (WITH CORE) 45UH	
		<TRANSISTOR>	
Q1	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q2	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q3	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q4	8-729-900-89	TRANSISTOR DTC144ES	
Q5	8-729-900-89	TRANSISTOR DTC144ES	
Q6	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q8	8-729-900-89	TRANSISTOR DTC144ES	
Q9	8-729-207-89	TRANSISTOR 2SA1358-Y	
Q10	8-729-207-82	TRANSISTOR 2SC3421-Y	
Q11	8-729-900-89	TRANSISTOR DTC144ES	
Q13	8-729-900-89	TRANSISTOR DTC144ES	
Q101	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q102	8-729-105-74	TRANSISTOR 2SK523-M1	
Q103	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q104	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q105	8-729-142-68	TRANSISTOR 2SJ143	
Q106	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q107	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q108	8-729-142-69	TRANSISTOR 2SK817	
Q201	8-729-207-89	TRANSISTOR 2SA1358-Y	
Q202	8-729-207-82	TRANSISTOR 2SC3421-Y	
Q203	8-729-142-74	TRANSISTOR 2SD1977	
Q204	8-729-142-70	TRANSISTOR 2SB1315	
Q205	8-729-207-89	TRANSISTOR 2SA1358-Y	
Q206	8-729-207-82	TRANSISTOR 2SC3421-Y	
Q207	8-729-142-74	TRANSISTOR 2SD1977	
Q208	8-729-142-70	TRANSISTOR 2SB1315	
Q209	8-729-207-89	TRANSISTOR 2SA1358-Y	
Q210	8-729-207-82	TRANSISTOR 2SC3421-Y	
Q211	8-729-142-74	TRANSISTOR 2SD1977	
Q212	8-729-142-70	TRANSISTOR 2SB1315	
Q301	8-729-207-89	TRANSISTOR 2SA1358-Y	
Q302	8-729-207-82	TRANSISTOR 2SC3421-Y	
Q303	8-729-142-74	TRANSISTOR 2SD1977	
Q304	8-729-142-70	TRANSISTOR 2SB1315	
Q305	8-729-207-89	TRANSISTOR 2SA1358-Y	
Q306	8-729-207-82	TRANSISTOR 2SC3421-Y	
Q307	8-729-142-74	TRANSISTOR 2SD1977	
Q308	8-729-142-70	TRANSISTOR 2SB1315	
Q309	8-729-207-89	TRANSISTOR 2SA1358-Y	
Q310	8-729-207-82	TRANSISTOR 2SC3421-Y	
Q311	8-729-142-74	TRANSISTOR 2SD1977	
Q312	8-729-142-70	TRANSISTOR 2SB1315	
		<RESISTOR>	
R1	1-215-463-00	METAL 56K 1% 1/4W	
R2	1-215-445-00	METAL 10K 1% 1/4W	
R3	1-215-445-00	METAL 10K 1% 1/4W	
R4	1-214-800-11	METAL 2.2 1% 1/2W	
R5	1-214-800-11	METAL 2.2 1% 1/2W	
R6	1-215-429-00	METAL 2.2K 1% 1/4W	
R7	1-215-421-00	METAL 1K 1% 1/4W	
R8	1-215-898-11	METAL OXIDE 10K 5% 2W	F
R9	1-249-433-11	CARBON 22K 5% 1/4W	
R10	1-249-417-11	CARBON 1K 5% 1/4W	
R11	1-249-441-11	CARBON 100K 5% 1/4W	
R12	1-249-429-11	CARBON 10K 5% 1/4W	
R13	1-249-429-11	CARBON 10K 5% 1/4W	
R14	1-249-429-11	CARBON 10K 5% 1/4W	
R15	1-215-463-00	METAL 56K 1% 1/4W	
R16	1-215-445-00	METAL 10K 1% 1/4W	
R17	1-215-445-00	METAL 10K 1% 1/4W	
R18	1-214-800-11	METAL 2.2 1% 1/2W	
R19	1-214-800-11	METAL 2.2 1% 1/2W	

REF.NO.	PART NO.	DESCRIPTION				REMARK
R20	1-215-429-00	METAL	2.2K	1%	1/4W	
R21	1-215-421-00	METAL	1K	1%	1/4W	
R22	1-215-898-11	METAL OXIDE	10K	5%	2W	F
R23	1-249-433-11	CARBON	22K	5%	1/4W	
R24	1-249-417-11	CARBON	1K	5%	1/4W	
R25	1-249-441-11	CARBON	100K	5%	1/4W	
R26	1-249-429-11	CARBON	10K	5%	1/4W	
R27	1-249-429-11	CARBON	10K	5%	1/4W	
R28	1-249-429-11	CARBON	10K	5%	1/4W	
R29	1-215-463-00	METAL	56K	1%	1/4W	
R30	1-215-445-00	METAL	10K	1%	1/4W	
R31	1-215-445-00	METAL	10K	1%	1/4W	
R32	1-214-800-11	METAL	2.2	1%	1/2W	
R33	1-214-800-11	METAL	2.2	1%	1/2W	
R34	1-215-429-00	METAL	2.2K	1%	1/4W	
R35	1-215-421-00	METAL	1K	1%	1/4W	
R36	1-215-898-11	METAL OXIDE	10K	5%	2W	F
R37	1-249-433-11	CARBON	22K	5%	1/4W	
R38	1-249-417-11	CARBON	1K	5%	1/4W	
R39	1-249-441-11	CARBON	100K	5%	1/4W	
R40	1-249-429-11	CARBON	10K	5%	1/4W	
R41	1-249-429-11	CARBON	10K	5%	1/4W	
R42	1-249-429-11	CARBON	10K	5%	1/4W	
R43	1-249-429-11	CARBON	10K	5%	1/4W	
R44	1-249-429-11	CARBON	10K	5%	1/4W	
R45	1-249-417-11	CARBON	1K	5%	1/4W	
R46	1-249-433-11	CARBON	22K	5%	1/4W	
R47	1-249-433-11	CARBON	22K	5%	1/4W	
R48	1-249-429-11	CARBON	10K	5%	1/4W	
R49	1-249-429-11	CARBON	10K	5%	1/4W	
R50	1-249-437-11	CARBON	47K	5%	1/4W	
R51	1-249-417-11	CARBON	1K	5%	1/4W	
R52	1-249-417-11	CARBON	1K	5%	1/4W	
R55	1-215-883-11	METAL OXIDE	33	5%	2W	F
R56	1-249-433-11	CARBON	22K	5%	1/4W	
R57	1-249-429-11	CARBON	10K	5%	1/4W	
R58	1-249-417-11	CARBON	1K	5%	1/4W	
R59	1-216-449-11	METAL OXIDE	56	5%	2W	F
R61	1-215-463-00	METAL	56K	1%	1/4W	
R62	1-215-463-00	METAL	56K	1%	1/4W	
R63	1-215-463-00	METAL	56K	1%	1/4W	
R64	1-216-363-00	METAL OXIDE	0.33	5%	2W	F
R65	1-216-363-00	METAL OXIDE	0.33	5%	2W	F
R66	1-249-421-11	CARBON	2.2K	5%	1/4W	
R67	1-249-429-11	CARBON	10K	5%	1/4W	
R68	1-249-433-11	CARBON	22K	5%	1/4W	
R69	1-249-429-11	CARBON	10K	5%	1/4W	
R72	1-249-429-11	CARBON	10K	5%	1/4W	
R73	1-249-441-11	CARBON	100K	5%	1/4W	
R74	1-249-429-11	CARBON	10K	5%	1/4W	
R75	1-216-363-00	METAL OXIDE	0.33	5%	2W	F
R76	1-216-363-00	METAL OXIDE	0.33	5%	2W	F
R77	1-249-417-11	CARBON	1K	5%	1/4W	
R79	1-249-429-11	CARBON	10K	5%	1/4W	
R80	1-249-393-11	CARBON	10	5%	1/4W	
R81	1-249-393-11	CARBON	10	5%	1/4W	
R82	1-249-429-11	CARBON	10K	5%	1/4W	
R101	1-249-417-11	CARBON	1K	5%	1/4W	
R102	1-249-417-11	CARBON	1K	5%	1/4W	
R103	1-249-419-11	CARBON	1.5K	5%	1/4W	
R104	1-249-429-11	CARBON	10K	5%	1/4W	
R105	1-249-425-11	CARBON	4.7K	5%	1/4W	
R106	1-249-417-11	CARBON	1K	5%	1/4W	
R107	1-249-393-11	CARBON	10	5%	1/4W	F
R108	1-249-393-11	CARBON	10	5%	1/4W	F
R109	1-247-807-31	CARBON	100	5%	1/4W	
R110	1-249-393-11	CARBON	10	5%	1/4W	
R111	1-249-417-11	CARBON	1K	5%	1/4W	
R112	1-249-393-11	CARBON	10	5%	1/4W	F
R113	1-249-393-11	CARBON	10	5%	1/4W	F
R114	1-247-807-31	CARBON	100	5%	1/4W	
R115	1-249-393-11	CARBON	10	5%	1/4W	
R201	1-215-425-00	METAL	1.5K	1%	1/4W	
R202	1-215-445-00	METAL	10K	1%	1/4W	
R203	1-215-421-00	METAL	1K	1%	1/4W	
R204	1-215-417-00	METAL	680	1%	1/4W	
R205	1-215-439-00	METAL	5.6K	1%	1/4W	
R206	1-215-421-00	METAL	1K	1%	1/4W	
R207	1-215-421-00	METAL	1K	1%	1/4W	
R208	1-214-814-11	METAL	8.2	1%	1/2W	
R209	1-214-814-11	METAL	8.2	1%	1/2W	
R210	1-214-814-11	METAL	8.2	1%	1/2W	
R211	1-214-814-11	METAL	8.2	1%	1/2W	
R212	1-214-814-11	METAL	8.2	1%	1/2W	
R213	1-214-814-11	METAL	8.2	1%	1/2W	
R214	1-249-435-11	CARBON	33K	5%	1/4W	
R215	1-249-426-11	CARBON	5.6K	5%	1/4W	
R216	1-249-415-11	CARBON	680	5%	1/4W	F
R217	1-249-427-11	CARBON	6.8K	5%	1/4W	
R218	1-247-811-31	CARBON	150	5%	1/4W	
R219	1-249-403-11	CARBON	68	5%	1/4W	F
R221	1-216-369-00	METAL OXIDE	1	5%	2W	F
R222	1-216-369-00	METAL OXIDE	1	5%	2W	F
R223	1-215-885-00	METAL OXIDE	68	5%	2W	F
R224	1-215-425-00	METAL	1.5K	1%	1/4W	
R225	1-215-445-00	METAL	10K	1%	1/4W	
R226	1-215-421-00	METAL	1K	1%	1/4W	
R227	1-215-417-00	METAL	680	1%	1/4W	
R228	1-215-439-00	METAL	5.6K	1%	1/4W	
R229	1-215-421-00	METAL	1K	1%	1/4W	
R230	1-215-421-00	METAL	1K	1%	1/4W	
R231	1-214-814-11	METAL	8.2	1%	1/2W	
R232	1-214-814-11	METAL	8.2	1%	1/2W	
R233	1-214-814-11	METAL	8.2	1%	1/2W	
R234	1-214-814-11	METAL	8.2	1%	1/2W	
R235	1-214-814-11	METAL	8.2	1%	1/2W	
R236	1-214-814-11	METAL	8.2	1%	1/2W	
R237	1-249-435-11	CARBON	33K	5%	1/4W	
R238	1-249-426-11	CARBON	5.6K	5%	1/4W	
R239	1-249-415-11	CARBON	680	5%	1/4W	F
R240	1-249-427-11	CARBON	6.8K	5%	1/4W	
R241	1-247-811-31	CARBON	150	5%	1/4W	
R242	1-249-403-11	CARBON	68	5%	1/4W	F
R244	1-216-369-00	METAL OXIDE	1	5%	2W	F
R245	1-216-369-00	METAL OXIDE	1	5%	2W	F
R246	1-215-885-00	METAL OXIDE	68	5%	2W	F
R247	1-215-425-00	METAL	1.5K	1%	1/4W	
R248	1-215-445-00	METAL	10K	1%	1/4W	
R249	1-215-421-00	METAL	1K	1%	1/4W	
R250	1-215-417-00	METAL	680	1%	1/4W	
R251	1-215-439-00	METAL	5.6K	1%	1/4W	
R252	1-215-421-00	METAL	1K	1%	1/4W	
R253	1-215-421-00	METAL	1K	1%	1/4W	
R254	1-214-814-11	METAL	8.2	1%	1/2W	
R255	1-214-814-11	METAL	8.2	1%	1/2W	
R256	1-214-814-11	METAL	8.2	1%	1/2W	
R257	1-214-814-11	METAL	8.2	1%	1/2W	

DC **KA**

REF.NO.	PART NO.	DESCRIPTION				REMARK
R258	1-214-814-11	METAL	8.2	1%	1/2W	
R259	1-214-814-11	METAL	8.2	1%	1/2W	
R260	1-249-435-11	CARBON	33K	5%	1/4W	
R261	1-249-426-11	CARBON	5.6K	5%	1/4W	
R262	1-249-415-11	CARBON	680	5%	1/4W	F
R263	1-249-427-11	CARBON	6.8K	5%	1/4W	
R264	1-247-811-31	CARBON	150	5%	1/4W	
R265	1-249-403-11	CARBON	68	5%	1/4W	F
R267	1-216-369-00	METAL OXIDE	1	5%	2W	F
R268	1-216-369-00	METAL OXIDE	1	5%	2W	F
R269	1-215-885-00	METAL OXIDE	68	5%	2W	F
R270	1-247-807-31	CARBON	100	5%	1/4W	
R271	1-247-807-31	CARBON	100	5%	1/4W	
R272	1-247-807-31	CARBON	100	5%	1/4W	
R273	1-247-807-31	CARBON	100	5%	1/4W	
R274	1-247-807-31	CARBON	100	5%	1/4W	
R275	1-247-807-31	CARBON	100	5%	1/4W	
R301	1-215-427-00	METAL	1.8K	1%	1/4W	
R302	1-215-445-00	METAL	10K	1%	1/4W	
R303	1-215-421-00	METAL	1K	1%	1/4W	
R304	1-215-411-00	METAL	390	1%	1/4W	
R305	1-215-435-00	METAL	3.9K	1%	1/4W	
R306	1-215-421-00	METAL	1K	1%	1/4W	
R307	1-215-421-00	METAL	1K	1%	1/4W	
R308	1-214-808-11	METAL	4.7	1%	1/2W	
R309	1-214-808-11	METAL	4.7	1%	1/2W	
R310	1-214-808-11	METAL	4.7	1%	1/2W	
R311	1-214-808-11	METAL	4.7	1%	1/2W	
R312	1-214-808-11	METAL	4.7	1%	1/2W	
R313	1-214-808-11	METAL	4.7	1%	1/2W	
R314	1-249-435-11	CARBON	33K	5%	1/4W	
R315	1-249-426-11	CARBON	5.6K	5%	1/4W	
R316	1-249-415-11	CARBON	680	5%	1/4W	F
R317	1-249-427-11	CARBON	6.8K	5%	1/4W	
R318	1-247-811-31	CARBON	150	5%	1/4W	
R319	1-249-403-11	CARBON	68	5%	1/4W	F
R321	1-216-363-00	METAL OXIDE	0.33	5%	2W	F
R322	1-216-363-00	METAL OXIDE	0.33	5%	2W	F
R323	1-215-885-00	METAL OXIDE	68	5%	2W	F
R324	1-215-427-00	METAL	1.8K	1%	1/4W	
R325	1-215-445-00	METAL	10K	1%	1/4W	
R326	1-215-421-00	METAL	1K	1%	1/4W	
R327	1-215-411-00	METAL	390	1%	1/4W	
R328	1-215-435-00	METAL	3.9K	1%	1/4W	
R329	1-215-421-00	METAL	1K	1%	1/4W	
R330	1-215-421-00	METAL	1K	1%	1/4W	
R331	1-214-808-11	METAL	4.7	1%	1/2W	
R332	1-214-808-11	METAL	4.7	1%	1/2W	
R333	1-214-808-11	METAL	4.7	1%	1/2W	
R334	1-214-808-11	METAL	4.7	1%	1/2W	
R335	1-214-808-11	METAL	4.7	1%	1/2W	
R336	1-214-808-11	METAL	4.7	1%	1/2W	
R337	1-249-435-11	CARBON	33K	5%	1/4W	
R338	1-249-426-11	CARBON	5.6K	5%	1/4W	
R339	1-249-415-11	CARBON	680	5%	1/4W	F
R340	1-249-427-11	CARBON	6.8K	5%	1/4W	
R341	1-247-811-31	CARBON	150	5%	1/4W	
R342	1-249-403-11	CARBON	68	5%	1/4W	F
R344	1-216-363-00	METAL OXIDE	0.33	5%	2W	F
R345	1-216-363-00	METAL OXIDE	0.33	5%	2W	F
R346	1-215-885-00	METAL OXIDE	68	5%	2W	F
R347	1-215-427-00	METAL	1.8K	1%	1/4W	
R348	1-215-445-00	METAL	10K	1%	1/4W	
R349	1-215-421-00	METAL	1K	1%	1/4W	

REF.NO.	PART NO.	DESCRIPTION				REMARK
R350	1-215-411-00	METAL	390	1%	1/4W	
R351	1-215-435-00	METAL	3.9K	1%	1/4W	
R352	1-215-421-00	METAL	1K	1%	1/4W	
R353	1-215-421-00	METAL	1K	1%	1/4W	
R354	1-214-808-11	METAL	4.7	1%	1/2W	
R355	1-214-808-11	METAL	4.7	1%	1/2W	
R356	1-214-808-11	METAL	4.7	1%	1/2W	
R357	1-214-808-11	METAL	4.7	1%	1/2W	
R358	1-214-808-11	METAL	4.7	1%	1/2W	
R359	1-214-808-11	METAL	4.7	1%	1/2W	
R360	1-249-435-11	CARBON	33K	5%	1/4W	
R361	1-249-426-11	CARBON	5.6K	5%	1/4W	
R362	1-249-415-11	CARBON	680	5%	1/4W	F
R363	1-249-427-11	CARBON	6.8K	5%	1/4W	
R364	1-249-404-00	CARBON	82	5%	1/4W	
R365	1-249-400-11	CARBON	39	5%	1/4W	F
R367	1-216-363-00	METAL OXIDE	0.33	5%	2W	F
R368	1-216-363-00	METAL OXIDE	0.33	5%	2W	F
R369	1-215-885-00	METAL OXIDE	68	5%	2W	F
R370	1-247-807-31	CARBON	100	5%	1/4W	
R371	1-247-807-31	CARBON	100	5%	1/4W	
R372	1-247-807-31	CARBON	100	5%	1/4W	
R373	1-247-807-31	CARBON	100	5%	1/4W	
R374	1-247-807-31	CARBON	100	5%	1/4W	
R375	1-247-807-31	CARBON	100	5%	1/4W	

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*A-1380-374-A KA BOARD, COMPLETE
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4-382-854-11 SCREW (M3X10), P, SW (+)

<CAPACITOR>

C501	1-124-910-11	ELECT	47MF	20%	50V
C502	1-101-004-00	CERAMIC	0.01MF		50V
C503	1-124-907-11	ELECT	10MF	20%	50V
C504	1-124-927-11	ELECT	4.7MF	20%	50V
C505	1-101-002-00	CERAMIC	0.0022MF		50V
C506	1-124-477-11	ELECT	47MF	20%	16V
C507	1-124-477-11	ELECT	47MF	20%	16V
C508	1-126-103-11	ELECT	470MF	20%	16V
C509	1-126-103-11	ELECT	470MF	20%	16V
C510	1-136-169-00	FILM	0.22MF	5%	50V
C511	1-136-169-00	FILM	0.22MF	5%	50V
C512	1-124-557-11	ELECT	1000MF	20%	25V
C513	1-124-911-11	ELECT	220MF	20%	50V

<DIODE>

D501 8-719-900-95 DIODE V09G

<IC>

IC501 8-759-101-77 IC UPC1241H

<CONNECTOR>

KA-501 1-564-517-11 PLUG, CONNECTOR 2P
KA-502*1-564-520-11 PLUG, CONNECTOR 5P

<TRANSISTOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
Q501	8-729-112-61	TRANSISTOR 2SA1441-L				
Q502	8-729-119-76	TRANSISTOR 2SA1175-HFE				

<RESISTOR>

R501	1-249-423-11	CARBON	3.3K	5%	1/4W	
R502	1-249-421-11	CARBON	2.2K	5%	1/4W	
R503	1-247-807-31	CARBON	100	5%	1/4W	
R504	1-249-421-11	CARBON	2.2K	5%	1/4W	
R505	1-249-419-11	CARBON	1.5K	5%	1/4W	
R506	1-249-381-11	CARBON	1	5%	1/4W	
R507	1-247-704-11	CARBON	220	5%	1/4W	F
R508	1-249-417-11	CARBON	1K	5%	1/4W	
R509	1-249-451-11	CARBON	2.2	5%	1/4W	F

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*A-1380-466-A K BOARD, COMPLETE
****

*4-034-120-01	HOLDER (A)
4-382-854-11	SCREW (M3X10), P, SW (+)

<CAPACITOR>

C201	1-124-907-11	ELECT	10MF	20%	50V
C202	1-124-907-11	ELECT	10MF	20%	50V
C203	1-124-907-11	ELECT	10MF	20%	50V
C204	1-101-004-00	CERAMIC	0.01MF		50V
C205	1-101-004-00	CERAMIC	0.01MF		50V
C206	1-124-907-11	ELECT	10MF	20%	50V
C207	1-124-794-51	ELECT	4.7MF	20%	100V
C208	1-102-050-00	CERAMIC	0.01MF		500V
C209	1-124-903-11	ELECT	1MF	20%	50V
C210	1-136-173-00	FILM	0.47MF	5%	50V
C211	1-124-910-11	ELECT	47MF	20%	50V
C212	1-124-910-11	ELECT	47MF	20%	50V
C213	1-124-907-11	ELECT	10MF	20%	50V
C214	1-124-907-11	ELECT	10MF	20%	50V

<CONNECTOR>

CN291	1-564-523-11	PLUG, CONNECTOR 8P
CN292	1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P
CN293	*1-564-517-11	PLUG, CONNECTOR 2P
CN294	*1-564-518-11	PLUG, CONNECTOR 3P

<DIODE>

D201	8-719-110-17	DIODE RD10ESB2
D202	8-719-110-17	DIODE RD10ESB2
D203	8-719-948-45	DIODE ERA22-08
D204	8-719-911-19	DIODE 1SS119
D205	8-719-911-19	DIODE 1SS119

<IC>

IC201	8-759-109-82	IC UPC814C
IC202	8-759-109-82	IC UPC814C

<COIL>

L201	1-459-155-00	COIL (WITH CORE) 45UH

<TRANSISTOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
Q201	8-729-112-61	TRANSISTOR 2SA1441-L				
Q202	8-729-207-82	TRANSISTOR 2SC3421-Y				
Q203	8-729-143-42	TRANSISTOR 2SK929				
Q204	8-729-143-42	TRANSISTOR 2SK929				
Q205	8-729-142-74	TRANSISTOR 2SD1977				
Q206	8-729-142-70	TRANSISTOR 2SB1315				

<RESISTOR>

R201	1-215-429-00	METAL	2.2K	1%	1/4W	
R202	1-215-429-00	METAL	2.2K	1%	1/4W	
R203	1-215-461-00	METAL	47K	1%	1/4W	
R204	1-215-429-00	METAL	2.2K	1%	1/4W	
R205	1-249-417-11	CARBON	1K	5%	1/4W	
R206	1-215-445-00	METAL	10K	1%	1/4W	
R207	1-249-425-11	CARBON	4.7K	5%	1/4W	
R208	1-215-453-00	METAL	22K	1%	1/4W	
R209	1-215-453-00	METAL	22K	1%	1/4W	
R210	1-202-818-00	SOLID	1K	20%	1/2W	
R211	1-202-818-00	SOLID	1K	20%	1/2W	
R212	1-249-429-11	CARBON	10K	5%	1/4W	
R213	1-249-441-11	CARBON	100K	5%	1/4W	
R214	1-215-491-00	METAL	820K	1%	1/4W	
R215	1-215-902-11	METAL OXIDE	47K	5%	2W	F
R216	1-215-409-00	METAL	330	1%	1/4W	
R217	1-249-425-11	CARBON	4.7K	5%	1/4W	
R218	1-249-429-11	CARBON	10K	5%	1/4W	
R219	1-247-713-11	CARBON	1K	5%	1/4W	F
R220	1-247-700-11	CARBON	100	5%	1/4W	F
R221	1-202-842-11	SOLID	220K	20%	1/2W	
R222	1-247-713-11	CARBON	1K	5%	1/4W	F
R223	1-215-904-11	METAL OXIDE	100K	5%	2W	F
R224	1-202-842-11	SOLID	220K	20%	1/2W	
R225	1-247-713-11	CARBON	1K	5%	1/4W	F
R226	1-249-389-11	CARBON	4.7	5%	1/4W	F
R227	1-249-451-11	CARBON	2.2	5%	1/4W	F
R228	1-215-425-00	METAL	1.5K	1%	1/4W	
R229	1-249-437-11	CARBON	47K	5%	1/4W	
R230	1-215-407-00	METAL	270	1%	1/4W	
R231	1-215-435-00	METAL	3.9K	1%	1/4W	
R232	1-247-700-11	CARBON	100	5%	1/4W	F
R233	1-247-700-11	CARBON	100	5%	1/4W	F
R234	1-249-447-11	CARBON	1	5%	1/4W	F
R235	1-249-447-11	CARBON	1	5%	1/4W	F
R236	1-247-713-11	CARBON	1K	5%	1/4W	F
R237	1-249-433-11	CARBON	22K	5%	1/4W	
R238	1-249-451-11	CARBON	2.2	5%	1/4W	F

<SPARK GAP>

SG201	1-519-063-XX	DISCHARGING GAP
SG202	1-519-063-XX	DISCHARGING GAP

<TRANSFORMER>

T201	1-424-287-11	TRANSFORMER, DYNAMIC FOCUS

****

*A-1390-255-A NA BOARD, COMPLETE
****

*4-398-771-01 CAP, LED

NA **NB** **L** **CBR**

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

REF.NO.	PART NO.	DESCRIPTION				REMARK
		<CAPACITOR>				
C601	1-124-477-11	ELECT	47MF	20%		16V
		<DIODE>				
D601	8-719-955-04	DIODE PY5504S-1				
D602	8-719-920-66	DIODE SLR-54VC12				
		<IC>				
IC601	8-741-148-33	IC SBX1483-59				
		<CONNECTOR>				
NA-1	*1-564-519-11	PLUG, CONNECTOR 4P				
		<TRANSISTOR>				
Q601	8-729-119-78	TRANSISTOR 2SC2785-HFE				
		<RESISTOR>				
R601	1-247-807-31	CARBON	100	5%	1/4W	
R602	1-249-409-11	CARBON	220	5%	1/4W	
R603	1-247-807-31	CARBON	100	5%	1/4W	
R604	1-249-433-11	CARBON	22K	5%	1/4W	
R605	1-249-429-11	CARBON	10K	5%	1/4W	
**						
	*A-1390-256-A	NB BOARD, COMPLETE ******************				
		<CAPACITOR>				
C701	1-124-477-11	ELECT	47MF	20%		16V
		<IC>				
IC701	8-741-139-80	IC BX-1398				
		<CONNECTOR>				
NB-1	*1-564-507-11	PLUG, CONNECTOR 4P				
**						
	*A-1390-257-A	L BOARD, COMPLETE *****************				
		<CAPACITOR>				
C301	1-101-004-00	CERAMIC	0.01MF			50V
C304	1-124-907-11	ELECT	10MF	20%		50V
		<IC>				
IC301	8-759-233-33	IC TC74HC541AP				
IC302	8-759-044-95	IC MC14495P1				
IC303	8-759-044-95	IC MC14495P1				
IC304	8-719-901-68	DIODE GL-6R202				
		<COIL>				
L301	1-459-155-00	COIL (WITH CORE) 45UH				
		<CONNECTOR>				
L-301	*1-564-526-11	PLUG, CONNECTOR 11P				
L-302	1-564-517-11	PLUG, CONNECTOR 2P				
		<TRANSISTOR>				
Q301	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q302	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q303	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q304	8-729-119-78	TRANSISTOR 2SC2785-HFE				
		<RESISTOR>				
R301	1-249-441-11	CARBON	100K	5%	1/4W	
R302	1-249-441-11	CARBON	100K	5%	1/4W	
**						
	*A-1390-423-A	CBR BOARD, COMPLETE *******************				
	⚠1-526-812-12	SOCKET, PICTURE TUBE				
	1-575-098-11	LEAD ASSY, SIELD HIGH VOLTAGE				
		<CAPACITOR>				
C301	1-162-114-00	CERAMIC	0.0047MF			2KV
		<CONNECTOR>				
CN251	*1-564-507-11	PLUG, CONNECTOR 4P				
CN252	1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P				
CN253	*1-564-507-11	PLUG, CONNECTOR 4P				
CN254	*1-506-371-00	PIN, CONNECTOR 2P				
CN255	1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P				
CN256	*1-564-507-11	PLUG, CONNECTOR 4P				
		<COIL>				
L303	1-408-401-00	INDUCTOR	2.2UH			
		<NEON LAMP>				
NL301	1-519-423-11	LAMP, NEON				
NL302	1-519-423-11	LAMP, NEON				
NL303	1-519-368-21	LAMP, NEON				
NL304	1-519-368-21	LAMP, NEON				
NL305	1-519-423-11	LAMP, NEON				
		<RESISTOR>				
R301	1-202-818-00	SOLID	1K	20%	1/2W	
R302	1-202-818-00	SOLID	1K	20%	1/2W	
R303	1-202-823-11	SOLID	2.7K	20%	1/2W	
R306	1-202-838-00	SOLID	100K	20%	1/2W	
R307	1-202-535-81	SOLID	27	20%	1/2W	
R308	1-202-525-81	SOLID	10	20%	1/2W	
R309	1-202-832-00	SOLID	15K	20%	1/2W	
		<SPARK GAP>				
SG301	1-519-063-XX	DISCHARGING GAP				

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REF.NO.	PART NO.	DESCRIPTION	REMARK

* * *

	*A-1390-424-A	CBG BOARD, COMPLETE	
	⚠1-526-812-12	SOCKET, PICTURE TUBE	
	1-575-097-11	LEAD ASSY, SIELD HIGH VOLTAGE	
		<CAPACITOR>	
C401	1-162-114-00	CERAMIC 0.0047MF	2KV
		<CONNECTOR>	
CN261	*1-564-507-11	PLUG, CONNECTOR 4P	
CN262	1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P	
CN263	*1-564-507-11	PLUG, CONNECTOR 4P	
CN264	*1-506-371-00	PIN, CONNECTOR 2P	
CN265	1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P	
CN266	*1-564-507-11	PLUG, CONNECTOR 4P	
		<COIL>	
L403	1-408-401-00	INDUCTOR 2.2UH	
		<NEON LAMP>	
NL401	1-519-423-11	LAMP, NEON	
NL402	1-519-423-11	LAMP, NEON	
NL403	1-519-368-21	LAMP, NEON	
NL404	1-519-368-21	LAMP, NEON	
NL405	1-519-423-11	LAMP, NEON	
		<RESISTOR>	
R401	1-202-818-00	SOLID 1K 20% 1/2W	
R402	1-202-818-00	SOLID 1K 20% 1/2W	
R403	1-202-823-11	SOLID 2.7K 20% 1/2W	
R406	1-202-838-00	SOLID 100K 20% 1/2W	
R407	1-202-535-81	SOLID 27 20% 1/2W	
R408	1-202-525-81	SOLID 10 20% 1/2W	
R409	1-202-832-00	SOLID 15K 20% 1/2W	
		<SPARK GAP>	
SG401	1-519-063-XX	DISCHARGING GAP	

* * *

	*A-1390-425-A	CBB BOARD, COMPLETE	
	⚠1-526-812-12	SOCKET, PICTURE TUBE	
	1-575-096-11	LEAD ASSY, SIELD HIGH VOLTAGE	
		<CAPACITOR>	
C501	1-162-114-00	CERAMIC 0.0047MF	2KV
		<CONNECTOR>	
CN271	*1-564-507-11	PLUG, CONNECTOR 4P	
CN272	1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P	
CN273	*1-564-507-11	PLUG, CONNECTOR 4P	
CN274	*1-506-371-00	PIN, CONNECTOR 2P	
CN275	1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P	
CN276	*1-564-507-11	PLUG, CONNECTOR 4P	
		<COIL>	
L503	1-408-401-00	INDUCTOR 2.2UH	
		<NEON LAMP>	
NL501	1-519-423-11	LAMP, NEON	
NL502	1-519-423-11	LAMP, NEON	
NL503	1-519-368-21	LAMP, NEON	
NL504	1-519-368-21	LAMP, NEON	
NL505	1-519-423-11	LAMP, NEON	
		<RESISTOR>	
R501	1-202-818-00	SOLID 1K 20% 1/2W	
R502	1-202-818-00	SOLID 1K 20% 1/2W	
R503	1-202-823-11	SOLID 2.7K 20% 1/2W	
R506	1-202-838-00	SOLID 100K 20% 1/2W	
R507	1-202-535-81	SOLID 27 20% 1/2W	
R508	1-202-525-81	SOLID 10 20% 1/2W	
R509	1-202-832-00	SOLID 15K 20% 1/2W	
		<SPARK GAP>	
SG501	1-519-063-XX	DISCHARGING GAP	

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	*A-1394-325-A	Y BOARD, COMPLETE	
	*1-526-654-21	SOCKET, IC (DP) 16P	
	*1-526-659-00	SOCKET, IC (DP) 28P	
	*1-526-950-11	SOCKET, IC 64P	
	*1-563-949-11	SOCKET, SIL 8P	
		<CAPACITOR>	
C2	1-124-927-11	ELECT 4.7MF 20% 50V	
C3	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C4	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C5	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C6	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C7	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C8	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C9	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C10	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C11	1-163-251-11	CERAMIC CHIP 100PF 5% 50V	
C12	1-163-239-11	CERAMIC CHIP 33PF 5% 50V	
C13	1-163-239-11	CERAMIC CHIP 33PF 5% 50V	
C14	1-163-036-00	CERAMIC CHIP 0.068MF 50V	
C15	1-164-344-11	CERAMIC CHIP 0.068MF 10% 25V	
C16	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C17	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C18	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C19	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C20	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C21	1-163-097-00	CERAMIC CHIP 15PF 5% 50V	
C22	1-163-099-00	CERAMIC CHIP 18PF 5% 50V	
C23	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C24	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C25	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	

Y

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Replace only with part number specified.

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Ne les remplacer que par une piece portant le numero specifie.

REF.NO.	PART NO.	DESCRIPTION		REMARK
C26	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C27	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C28	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C29	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C30	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C31	1-163-097-00	CERAMIC CHIP 15PF	5%	50V
C32	1-163-097-00	CERAMIC CHIP 15PF	5%	50V
C33	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C34	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C35	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C36	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C37	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C38	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C39	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C40	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C41	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C42	1-124-477-11	ELECT 47MF	20%	16V
C43	1-163-251-11	CERAMIC CHIP 100PF	5%	50V
C45	1-163-089-00	CERAMIC CHIP 6PF	0.5PF	50V
C46	1-163-235-11	CERAMIC CHIP 22PF	5%	50V
C47	1-124-119-00	ELECT 330MF	20%	16V
C48	1-124-477-11	ELECT 47MF	20%	16V
C49	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C50	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C51	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C52	1-126-103-11	ELECT 470MF	20%	16V
C53	1-124-477-11	ELECT 47MF	20%	16V
C54	1-126-101-11	ELECT 100MF	20%	16V
C55	1-126-101-11	ELECT 100MF	20%	16V
C56	1-126-101-11	ELECT 100MF	20%	16V
C57	1-163-227-11	CERAMIC CHIP 10PF	0.5PF	50V
C58	1-163-227-11	CERAMIC CHIP 10PF	0.5PF	50V
C59	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C60	1-163-251-11	CERAMIC CHIP 100PF	5%	50V
C61	1-163-251-11	CERAMIC CHIP 100PF	5%	50V
C62	1-163-251-11	CERAMIC CHIP 100PF	5%	50V
C63	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C64	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C65	1-163-036-00	CERAMIC CHIP 0.068MF		50V
C67	1-124-119-00	ELECT 330MF	20%	16V
C68	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C69	1-163-121-00	CERAMIC CHIP 150PF	5%	50V
C70	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C71	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C72	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C73	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C74	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C75	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C76	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C77	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C78	1-124-907-11	ELECT 10MF	20%	50V
C79	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C80	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C81	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C82	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C83	1-124-907-11	ELECT 10MF	20%	50V
C84	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C85	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C86	1-163-133-00	CERAMIC CHIP 470PF	5%	50V
C87	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C88	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C90	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C91	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C92	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V

REF.NO.	PART NO.	DESCRIPTION	REMARK
		<DIODE>	
D2	8-719-971-20	DIODE ERC38-06	
D4	8-719-820-12	DIODE TLR224	
D5	8-719-104-34	DIODE 1S2836	
D7	8-719-400-18	DIODE MA152WK	
D8	8-719-400-18	DIODE MA152WK	
D9	8-719-104-34	DIODE 1S2836	
		<IC>	
IC1	8-759-320-49	IC HD64180R1P8	
IC2	8-759-748-29	IC MBM27C512-20	
IC3	8-752-331-00	IC CXK5864BM-12L	
IC4	8-759-196-XX	IC UPD28C64ACZ-15	
IC5	8-759-032-17	IC MC74HC14AF	
IC6	8-759-239-55	IC TC74HC123AF	
IC7	8-759-008-21	IC MC74HC541F	
IC8	8-759-008-21	IC MC74HC541F	
IC9	8-759-995-97	IC MB8855-1314N	
IC10	8-759-984-56	IC MB670840PF	
IC11	8-759-984-59	IC MB654842UPF	
IC12	8-759-984-58	IC MB671469PF	
IC13	8-759-181-02	IC MB605E66	
IC14	8-752-322-10	IC CXK5814P-45L	
IC15	8-752-333-84	IC CXK3864-040M	
IC16	8-752-333-85	IC CXK3864-041M	
IC17	8-752-333-86	IC CXK3864-042M	
IC18	8-759-301-24	IC HD10124	
IC19	8-759-301-24	IC HD10124	
IC20	8-752-306-51	IC CX23065A	
IC21	8-759-911-24	IC SN74S124N	
IC22	8-759-100-93	IC UPC393G2	
IC23	8-759-031-50	IC MC74F00M	
IC24	8-759-008-57	IC MC34051P	
IC25	8-759-114-06	IC UPC814G2-1	
IC26	8-759-032-32	IC MC74HC132AF	
IC27	8-759-925-98	IC SN74HC107ANS	
IC28	8-759-032-01	IC MC74HC00AF	
IC29	8-759-239-55	IC TC74HC123AF	
IC30	8-759-032-29	IC MC74HC126AF	
IC31	8-759-032-17	IC MC74HC14AF	
IC32	8-759-008-21	IC MC74HC541F	
IC33	8-759-979-65	IC RH5VA43AA	
IC34	8-759-032-41	IC MC74HC157AF	
IC35	8-759-925-54	IC LM2940CT-5.0	
		<COIL>	
L1	1-459-155-00	COIL (WITH CORE) 45UH	
L2	1-459-155-00	COIL (WITH CORE) 45UH	
L3	1-459-155-00	COIL (WITH CORE) 45UH	
L4	1-459-155-00	COIL (WITH CORE) 45UH	
		<IC LINK>	
PS1	⚠1-532-679-91	LINK, IC 0.6A	
PS2	⚠1-532-679-91	LINK, IC 0.6A	
		<TRANSISTOR>	
Q3	8-729-216-22	TRANSISTOR 2SA1162-G	
Q4	8-729-216-22	TRANSISTOR 2SA1162-G	

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q5	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q6	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q7	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q8	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q9	8-729-216-22	TRANSISTOR 2SA1162-G	

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
R1	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R2	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R3	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R4	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R5	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R6	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R7	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R8	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R9	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R10	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R11	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R12	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R13	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R14	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R15	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R16	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R17	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R18	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R19	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R20	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R21	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R22	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R23	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R24	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R25	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R26	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R27	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R28	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R29	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R30	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R31	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R32	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R33	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R34	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R36	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R37	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R38	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R39	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R40	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R41	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R42	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R43	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R44	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R45	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R46	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R47	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R48	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R49	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R50	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R51	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R52	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R53	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R54	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R55	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R56	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R57	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R58	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R59	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R62	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R63	1-216-091-00	METAL GLAZE	56K	5%	1/10W	
R64	1-216-121-00	METAL GLAZE	1M	5%	1/10W	
R65	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R66	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R67	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R68	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R69	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R70	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R71	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R72	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R73	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R74	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R75	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R76	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R77	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R78	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R79	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R80	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R81	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R82	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R83	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R84	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R85	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R86	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R87	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R88	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R89	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R90	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R91	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R92	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R93	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R100	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R101	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R102	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R103	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R104	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R105	1-216-083-00	METAL GLAZE	27K	5%	1/10W	
R106	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R107	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R108	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R109	1-216-121-00	METAL GLAZE	1M	5%	1/10W	
R110	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R111	1-216-121-00	METAL GLAZE	1M	5%	1/10W	
R112	1-216-121-00	METAL GLAZE	1M	5%	1/10W	
R113	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R114	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R115	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R116	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R117	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R118	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R119	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R120	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R121	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R122	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R123	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R124	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R125	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R126	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R127	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R128	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R129	1-216-025-00	METAL GLAZE	100	5%	1/10W	

Y

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Replace only with part number specified.

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Ne les remplacer que par une piece portant le numero specifie.

REF.NO.	PART NO.	DESCRIPTION				REMARK
R130	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R131	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R132	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R133	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R134	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R135	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R136	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R137	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R138	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R139	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R140	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R141	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R142	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R143	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R146	1-216-675-11	METAL CHIP	10K	0.50%	1/10W	
R147	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R148	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R149	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R150	1-216-105-00	METAL GLAZE	220K	5%	1/10W	
R151	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R152	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R153	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R154	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R155	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R156	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R157	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R158	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R159	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R160	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R162	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R163	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R164	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R165	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R166	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R167	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R168	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R169	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R170	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R171	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	
R172	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R173	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R174	1-216-079-00	METAL GLAZE	18K	5%	1/10W	
R175	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R176	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R177	1-216-129-00	METAL GLAZE	2.2M	5%	1/10W	
R178	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R179	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R181	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R182	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R183	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R184	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W	
R185	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R187	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R189	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	
R190	1-216-295-00	METAL GLAZE	0	5%	1/10W	

<SWITCH>

SW1	1-570-598-11	SWITCH, DIP
SW2	1-570-204-21	SWITCH, KEY BOARD

<CRYSTAL>

REF.NO.	PART NO.	DESCRIPTION	REMARK
X1	1-578-687-11	VIBRATOR, CRYSTAL	
X2	1-577-116-21	VIBRATOR, CRYSTAL	
X3	1-567-192-11	OSCILLATOR, CERAMIC	
X4	1-577-353-11	VIBRATOR, CERAMIC	

<CONNECTOR>

Y-1	*1-568-984-11	CONNECTOR, MALE 96P

****

MISCELLANEOUS

****

	⚠ 1-452-730-11	DEFLECTION YOKE, SUB
	⚠ 1-241-744-21	RESISTOR ASSY (HIGH-VOLTAGE)
	⚠ 1-413-934-11	REGULATOR, SWITCHING (SOPS-1047) (VPH-1252Q ONLY)
	⚠ 1-413-935-11	REGULATOR, SWITCHING (SOPS-1074) (VPH-1252QM ONLY)
	⚠ 1-451-355-11	DEFLECTION YOKE (Y636PJ)
	⚠ 1-452-429-31	NECK ASSY, PICTURE TUBE (NA366)
	⚠ 1-453-108-11	DC BLOCK, HIGH-VOLTAGE
	⚠ 1-453-108-31	DC BLOCK, HIGH-VOLTAGE
	1-503-255-00	SPEAKER
	1-541-950-11	FAN, DC
	*1-555-110-00	CABLE, P-P
	⚠ 1-559-865-31	LEAD ASSY, HIGH-VOLTAGE
	⚠ 1-559-865-41	LEAD ASSY, HIGH-VOLTAGE
	*1-575-091-11	CABLE, P-P
	1-575-092-11	CONNECTOR ASSY, MULTI 14P
	1-698-057-11	FAN, DC
	⚠ 1-900-086-01	LEAD ASSY, HIGH-VOLTAGE
	1-941-648-22	CONNECTOR ASSY, MICRO 2P
V901	⚠ 8-736-241-05	PICTURE TUBE 07MSP(G)
V902	⚠ 8-736-242-05	PICTURE TUBE 07MSP(B)
V903	⚠ 8-736-243-05	PICTURE TUBE 07MSP(R)

****

ACCESSORIES AND PACKING MATERIALS

****

*A-1280-414-A	RC BOARD, COMPLETE
X-4029-240-1	BAG ASSY, WASHER (T0.5)
X-4029-241-1	BAG ASSY, WASHER (T1.0)
*X-4029-335-1	PLATE ASSY, BOTTOM
X-4395-576-1	BAG ASSY, WASHER (T0.4)
X-4395-577-1	BAG ASSY, WASHER (T1.2)
X-4395-578-1	SPACER (0) ASSY, LENS
X-4395-579-1	SPACER (2) ASSY, LENS
1-575-100-11	CABLE, MINIATURE PLUG
⚠ 1-559-303-11	CODE, POWER(7.0A/250V)(VPH-1252QM ONLY)
⚠ 1-559-303-21	CODE, POWER(10.0A/125V)(VPH-1252Q ONLY)
2-357-277-01	PANEL, FRONT
3-562-223-00	TERMINAL BOARD, POSITIVE
*3-704-333-01	SHEET (STANDARD), PROTECTION
3-758-106-21	MANUAL, INSTRUCTION
3-758-106-31	MANUAL, INSTRUCTION
3-758-106-41	MANUAL, INSTRUCTION (VPH-1252QM ONLY)
3-758-107-21	MANUAL, INSTRUCTION
3-758-107-41	MANUAL, INSTRUCTION (VPH-1252QM ONLY)
*4-030-571-01	CUSHION (LOWER) (ASSY)
*4-030-572-01	PALLET, WOODEN
*4-030-574-01	TRAY
4-032-658-01	KEY TOP
4-032-660-01	SHEET, RUBBER
*4-043-128-01	INDIVIDUAL CARTON (VPH-1252QM ONLY)
*4-043-129-01	INDIVIDUAL CARTON (VPH-1252Q ONLY)
4-374-469-01	FOOT, RUBBER

REF.NO.	PART NO.	DESCRIPTION	REMARK
	4-395-501-01	KEY TOP	
	4-395-502-01	LID (A)	
	4-395-503-31	LID (B)	
	4-395-504-01	COVER, BATTERY	
	4-395-508-01	CASE, LOWER	
	*4-395-562-01	SPACER (200S), PICTURE TUBE	
	*4-395-563-01	SPACER (200U), PICTURE TUBE	
	*4-395-564-01	SPACER (72U), PICTURE TUBE	
	*4-395-565-01	SPACER (72S), PICTURE TUBE	
	*4-396-287-01	SPACER	
	*4-396-288-01	BOX, ACCESSORY	
	*4-388-954-01	BAG, PROTECTION	
	*4-395-515-01	CUSHION (UPPER) (ASSY)	
	*4-396-077-01	JOINT	
	*4-396-286-01	SUPPORT	
	*4-396-915-01	HOLDER	

9-978-383-01

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Display Products Group

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VPH-1252QM/Q
RM-1271

SONY
SERVICE MANUAL

VPH-1252QM
AEP Model
Serial No. 5,000,851 and later
Chassis No. SCC-D13D-A

VPH-1252Q
US and Canadian Model
Serial No. 5,002,031 and later
Chassis No. SCC-D27D-A

SUPPLEMENT

File this supplement with the service manual.

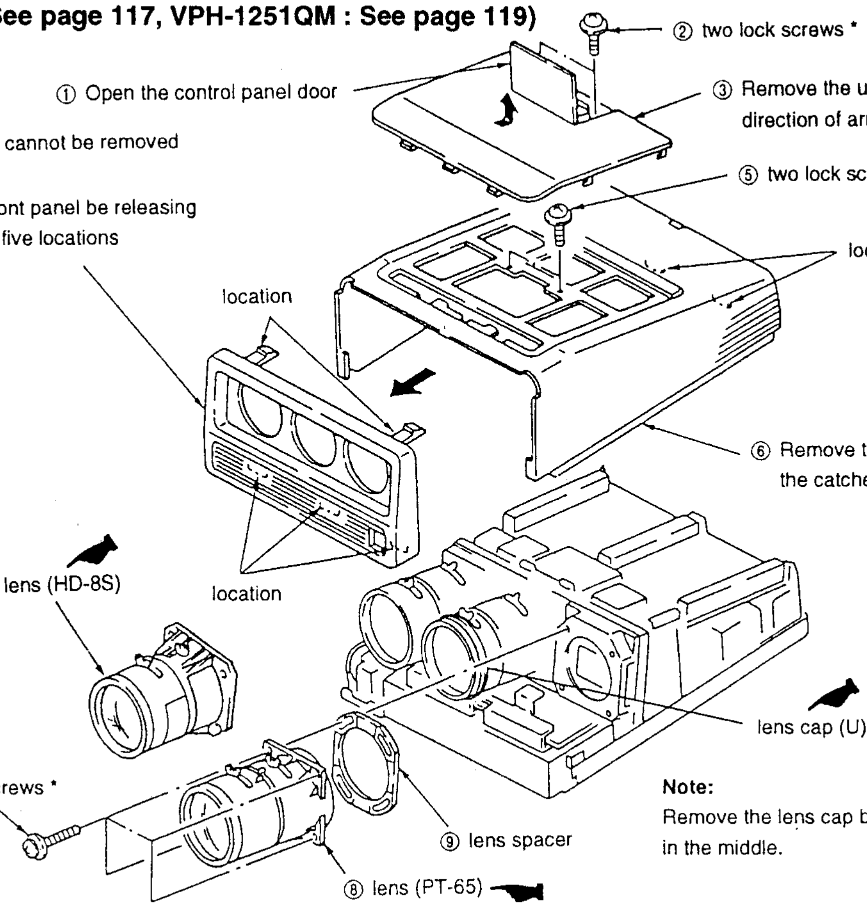
INTRODUCTION

1. Changed lens.
2. Repair part from of PA, CA (RG) and CA (B) boards has been changed from a mounted board to a board only.
3. This service manual have not contain the DISASSEMBLY and SET-UP ADJUSTMENT section.
   VPH-1252Q is almost as VPH-1251Q, and VPH-1252QM is almost as VPH-1251QM too.
   Please refer to VPH-1251Q service manual (9-978-194-01) and VPH-1251QM service manual (9-978-196-01).
   This service manual contain only the points which differ from VPH-1251Q and VPH-1251QM.

MICROFILM

2. DISASSEMBLY

2-1. CABINET AND LENS REMOVAL
(VPH-1251Q : See page 117, VPH-1251QM : See page 119)



① Open the control panel door

② two lock screws *

③ Remove the upper board in the direction of arrow

④ Remove the front panel be releasing the catches at five locations

⑤ two lock screws *

⑥ Remove the hood be releasing the catches at two locations

⑦ four lock screws *

⑧ lens (HD-8S)

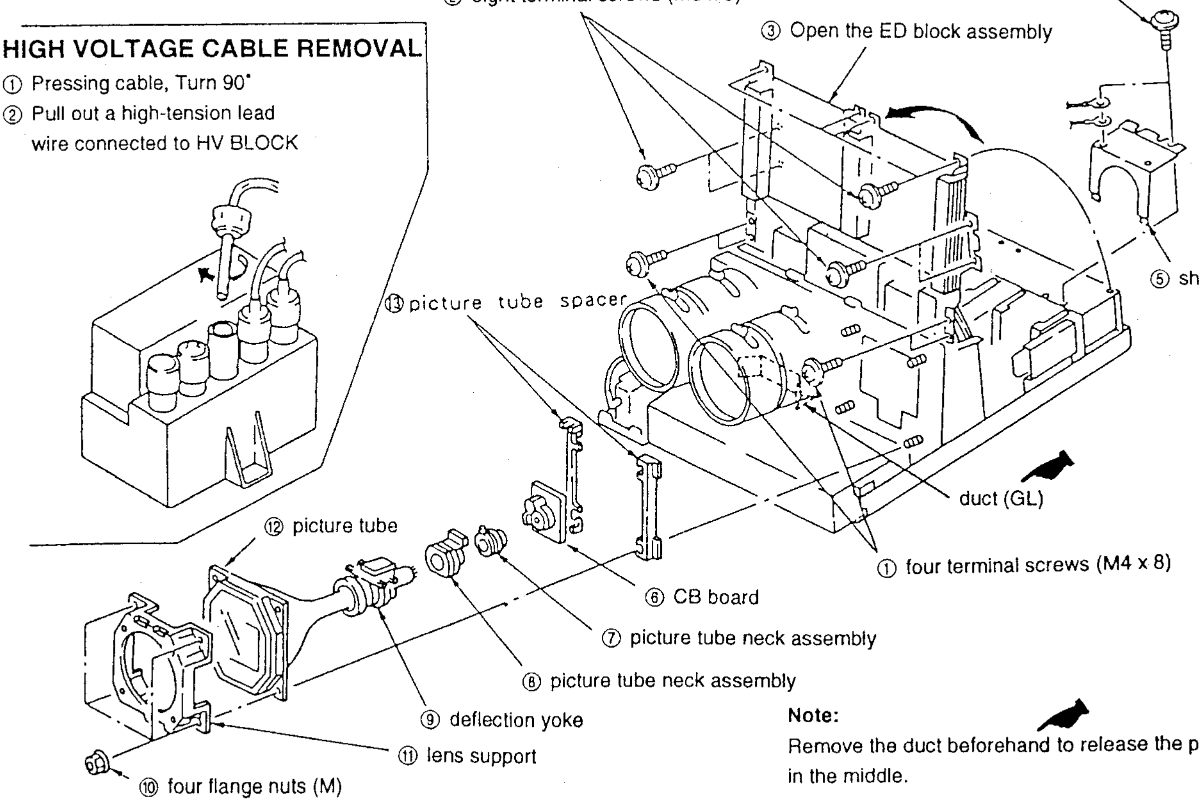
⑧ lens (PT-65)

⑨ lens spacer

* The lock screws cannot be removed

Note:
Remove the lens cap beforehand to release the lens in the middle.

2-2. PICTURE TUBE REMOVAL
(VPH-1251Q : See page 117, VPH-1251QM : See page 119)



HIGH VOLTAGE CABLE REMOVAL

① Pressing cable, Turn 90°

② Pull out a high-tension lead wire connected to HV BLOCK

① four terminal screws (M4 x 8)

② eight terminal screws (M3 x 8)

③ Open the ED block assembly

④ two terminal screws (M3 x 8)

⑤ shield cover

⑥ CB board

⑦ picture tube neck assembly

⑧ picture tube neck assembly

⑨ deflection yoke

⑩ four flange nuts (M)

⑪ lens support

⑫ picture tube

⑬ picture tube spacer

Note:
Remove the duct beforehand to release the picture tube in the middle.

4. SET-UP ADJUSTMENTS

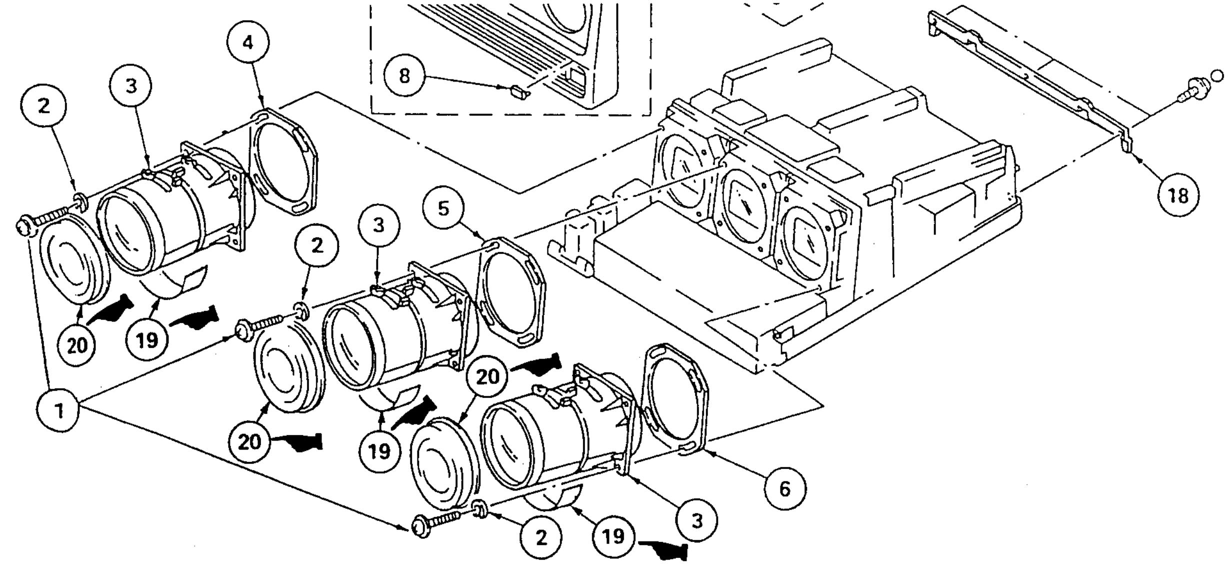
4-14. WHITE BALANCE ADJUSTMENT (VPH-1251Q : See page 205, VPH-1251QM : See page 205)

7. When performing adjustments using the digital voltmeter, adjust as follows.
   1) Adjust the BLUE G2 VR so that the voltage between Pins ① and ② of connector CFB-5 becomes 1.5 ± 0.2 VDC.
   2) Adjust the GREEN G2 VR so that the voltage between Pins ① and ③ of connector CFB-5 becomes 1.5 ± 0.2 VDC.
   3) Adjust the RED G2 VR so that the voltage between Pins ① and ④ of connector CFB-5 becomes 1.5 ± 0.2 VDC.
8. When performing adjustments without using the digital voltmeter, adjust as follows.
   1) Short circuit 1. and 2. of the CFB-3 connector (2P) of the CFB board.

Note : The 2P connector to be short-circuited is inserted in connector L302 of the L board. After the adjustment, insert it back into the L board.

3. EXPLODED VIEWS

3-1. LENS (VPH-1252QM/Q : See page 142)



REF.NO.	PART NO.	DESCRIPTION	REMARK
1	4-034-126-01	SCREW (C)	
2	4-034-117-01	WASHER, SUPPORT	
3	4-034-141-03	LENS (PT-65) (VPH-1252Q) (S/N:~5,002,030)	
3	4-034-141-03	LENS (PT-65) (VPH-1252QM) (S/N:~5,000,850)	
3	4-047-750-01	LENS (HD-8S) (VPH-1252Q) (S/N:5,002,031~)	
3	4-047-750-01	LENS (HD-8S) (VPH1252QM) (S/N:5,000,851~)	
4	4-034-143-01	SPACER (B), LENS	
5	4-034-144-01	SPACER (G), LENS	
6	4-034-142-01	SPACER (R), LENS	
7	X-4395-512-4	PANEL ASSY, FRONT	8
8	4-395-534-02	FILTER	
9	X-4031-652-1	HOOD ASSY (VPH-1252QM ONLY)	10~12
	X-4031-653-1	HOOD ASSY (VPH-1272Q ONLY)	
10	4-033-711-01	SCREW (+PWH M4x20), PREVENTION	
11	4-033-712-01	WASHER	
12	4-395-536-01	PLATE, INDICATE	
13	X-4031-601-1	PLATE, TOP	14~17
14	4-395-596-01	DOOR, CONTROL, PANEL	
15	4-392-036-01	CATCHER, PUSH	
16	4-033-713-01	SCREW (+PWH M4x10), PRIVENTION	
17	4-033-712-01	WASHER	
18	4-395-595-01	HOLDER, CONNECTOR PANEL	
19	4-047-883-01	SHEET, ABSORPTION (VPH-1252Q) (S/N:5,002,031~)	
19	4-047-883-01	SHEET, ABSORPTION (VPH-1252QM) (S/N:5,000,851~)	
20	4-048-013-01	COVER, LENS (VPH-1252Q) (S/N:5,002,031~)	
20	4-048-013-01	COVER, LENS (VPH-1252QM) (S/N:5,000,851~)	

4. ELECTRICAL PART LIST

VPH-1252QM/Q : See page 157

REF.NO	PART NO.	DESCRIPTION	REMARK
	*A-1195-081-A/B	PA BOARD, COMPLETE	
		(VPH-1252QM	S/N:5,000,001~5,001,035)
		(VPH-1252Q	S/N:5,000,001~5,002,030)
	*A-1195-081-B	PA BOARD, COMPLETE	
		(VPH-1252QM	S/N:5,001,036~)
		(VPH-1252Q	S/N:5,002,031~)
		<CAPACITOR>	
C43	1-129-718-00	FILM	0.022MF 10% 630V
		(VPH-1252QM	S/N:5,000,001~5,001,035)
		(VPH-1252Q	S/N:5,000,001~5,002,030)
	1-136-561-11	FILM	0.0068MF 10% 630V
		(VPH-1252QM	S/N:5,001,036~)
		(VPH-1252Q	S/N:5,002,031~)
		<COIL>	
L7	1-412-521-31	INDUCTOR	4.7UH
		(VPH-1252QM	S/N:5,000,001~5,001,035)
		(VPH-1252Q	S/N:5,000,001~5,002,030)
	1-412-525-31	INDUCTOR	10UH
		(VPH-1252QM	S/N:5,001,036~)
		(VPH-1252Q	S/N:5,002,031~)
L8	1-412-521-31	INDUCTOR	4.7UH
		(VPH-1252QM	S/N:5,000,001~5,000,035)
		(VPH-1252Q	S/N:5,000,001~5,002,030)
	1-412-525-31	INDUCTOR	10UH
		(VPH-1252QM	S/N:5,001,036~)
		(VPH-1252Q	S/N:5,002,031~)

VPH-1252QM/Q : See page 161

REF.NO	PART NO.	DESCRIPTION	REMARK
	*A-1335-026-A/B	CA (RG) BOARD, COMPLETE	
		(VPH-1252QM	S/N:5,000,001~5,000,850)
		(VPH-1252Q	S/N:5,000,001~5,002,030)
	*A-1335-026-B	CA (RG) BOARD, COMPLETE	
		(VPH-1252QM	S/N:5,000,851~)
		(VPH-1252QM	S/N:5,002,031~)
		<DIODE>	
D102	8-719-901-83	DIODE 1SS83	
		(VPH-1252QM	S/N:5,000,001~5,000,850)
		(VPH-1252Q	S/N:5,000,001~5,002,030)
	——	(VPH-1252QM	S/N:5,000,851~)
		(VPH-1252Q	S/N:5,002,031~)
D202	8-719-901-83	DIODE 1SS83	
		(VPH-1252QM	S/N:5,000,001~5,000,850)
		(VPH-1252Q	S/N:5,000,001~5,002,030)
	——	(VPH-1252QM	S/N:5,000,851~)
		(VPH-1252Q	S/N:5,002,031~)
		<RESISTOR>	
R150	1-247-807-31	CARBON	100 5% 1/4W
		(VPH-1252QM	S/N:5,000,001~5,000,850)
		(VPH-1252Q	S/N:5,000,001~5,002,030)
	1-249-393-11	CARBON	10 5% 1/4W
		(VPH-1252QM	S/N:5,000,851~)
		(VPH-1252Q	S/N:5,002,031~)
R170	1-247-735-11	SOLID	47 10% 1/2W
		(VPH-1252QM	S/N:5,000,001~5,000,850)
		(VPH-1252Q	S/N:5,000,001~5,002,030)
	——	(VPH-1252QM	S/N:5,000,851~)
		(VPH-1252Q	S/N:5,002,031~)
R248	1-247-807-31	CARBON	100 5% 1/4W
		(VPH-1252QM	S/N:5,000,001~5,000,850)
		(VPH-1252Q	S/N:5,000,001~5,002,030)
	1-249-393-11	CARBON	10 5% 1/4W
		(VPH-1252QM	S/N:5,000,851~)
		(VPH-1252Q	S/N:5,002,031~)
R270	1-247-735-11	SOLID	47 10% 1/2W
		(VPH-1252QM	S/N:5,000,001~5,000,850)
		(VPH-1252Q	S/N:5,000,001~5,002,030)
	——	(VPH-1252QM	S/N:5,001,851~)
		(VPH-1252Q	S/N:5,002,031~)

VPH-1252QM/Q : See page 164

REF.NO	PART NO.	DESCRIPTION	REMARK
	*A-1335-033-A/B	CA (B) BOARD, COMPLETE	
		(VPH-1252QM	S/N:5,000,001~5,000,850)
		(VPH-1252Q	S/N:5,000,001~5,002,030)
	*A-1335-033-B	CA (B) BOARD, COMPLETE	
		(VPH-1252QM	S/N:5,000,851~)
		(VPH-1252Q	S/N:5,002,031~)
		<DIODE>	
D302	8-719-901-83	DIODE 1SS83	
		(VPH-1252QM	S/N:5,000,001~5,000,850)
		(VPH-1252Q	S/N:5,000,001~5,002,030)
	——	(VPH-1252QM	S/N:5,000,851~)
		(VPH-1252Q	S/N:5,002,031~)
		<RESISTOR>	
R350	1-247-807-31	CARBON	100 5% 1/4W
		(VPH-1252QM	S/N:5,000,001~5,000,850)
		(VPH-1252Q	S/N:5,000,001~5,002,030)
	1-249-393-11	CARBON	10 5% 1/4W
		(VPH-1252QM	S/N:5,000,851~)
		(VPH-1252Q	S/N:5,002,031~)
R370	1-247-735-11	SOLID	47 10% 1/2W
		(VPH-1252QM	S/N:5,000,001~5,000,850)
		(VPH-1252Q	S/N:5,000,001~5,002,030)
	——	(VPH-1252QM	S/N:5,000,851~)
		(VPH-1252Q	S/N:5,002,031~)

VPH-1252QM/Q : See page 187

REF.NO	PART NO.	DESCRIPTION	REMARK
	*A-1394-325-A	Y BOARD, COMPLETE	
		(VPH-1252QM	S/N:5,000,001~5,000,850)
		(VPH-1252Q	S/N:5,000,001~5,002,030)
	*A-1394-677-A	Y BOARD, COMPLETE	
		(VPH-1252QM	S/N:5,000,851~)
		(VPH-1252Q	S/N:5,002,031~)

A-1394-677-A Y BOARD, COMPLETE IS USED FOR VPH-1252QM S/N:5,000,001~5,000,850 AND VPH-1252Q S/N:5,000,001~5,000,850.

REF.NO	PART NO.	DESCRIPTION	REMARK
		<IC>	
IC2	8-759-334-32	IC MBM27C512-20-PJY037	
		(VPH-1252QM	S/N:5,000,001~5,000,850)
		(VPH-1252Q	S/N:5,000,001~5,002,030)
	8-759-346-00	IC MBM27C512-20-PJY038	
		(VPH-1252QM	S/N:5,000,851~)
		(VPH-1252Q	S/N:5,002,031~)

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B & I Systems Company

VPH-1252QM/Q
RM-1271

SONY

SERVICE MANUAL

VPH-1252QM
AEP Model
Serial No. 5,001,086 and later
Chassis No. SCC-D13D-A

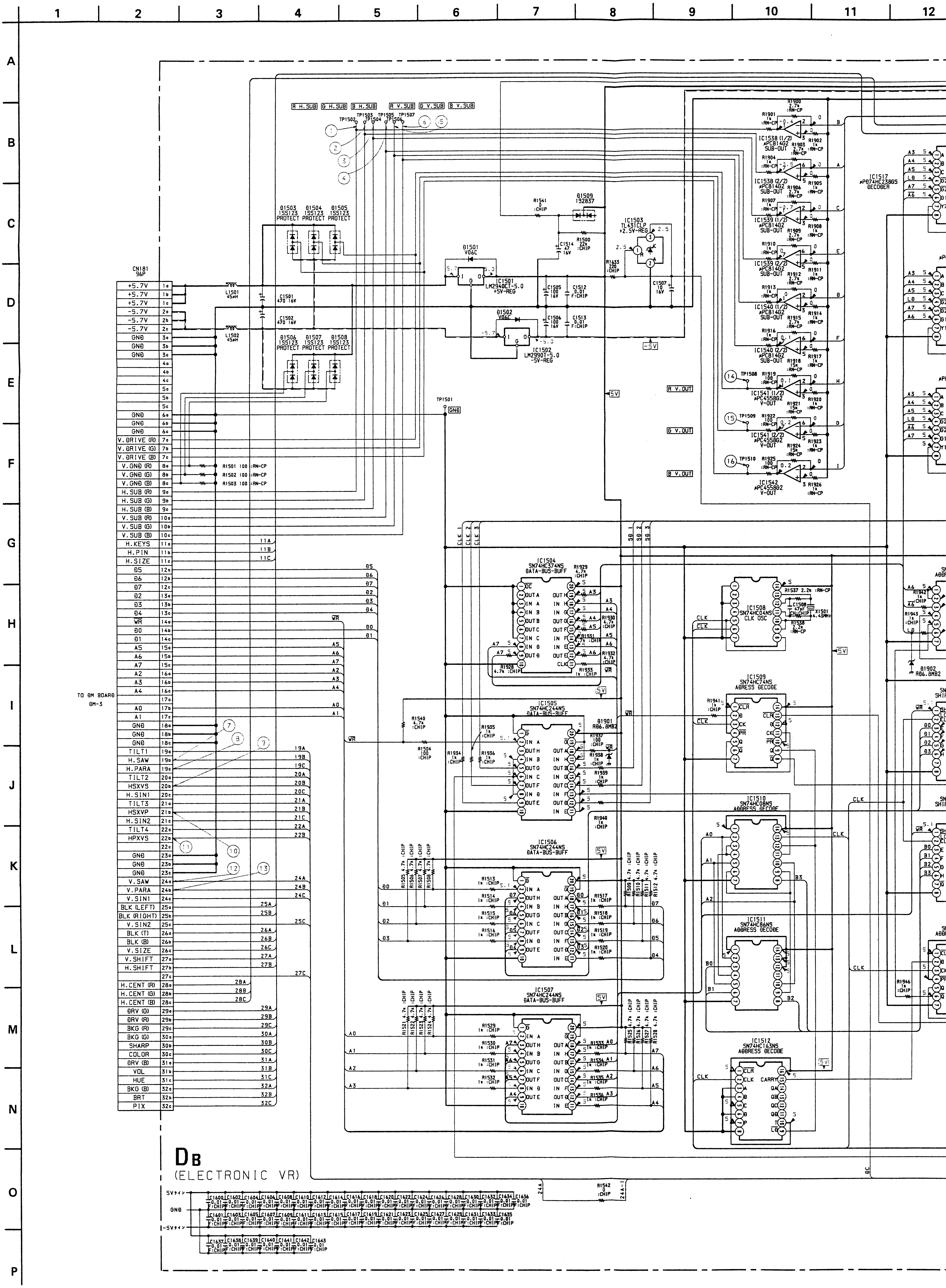
VPH-1252Q
US and Canadian Model
Serial No. 5,002,331 and later
Chassis No. SCC-D27D-A

SUPPLEMENT

File this supplement with the service manual.

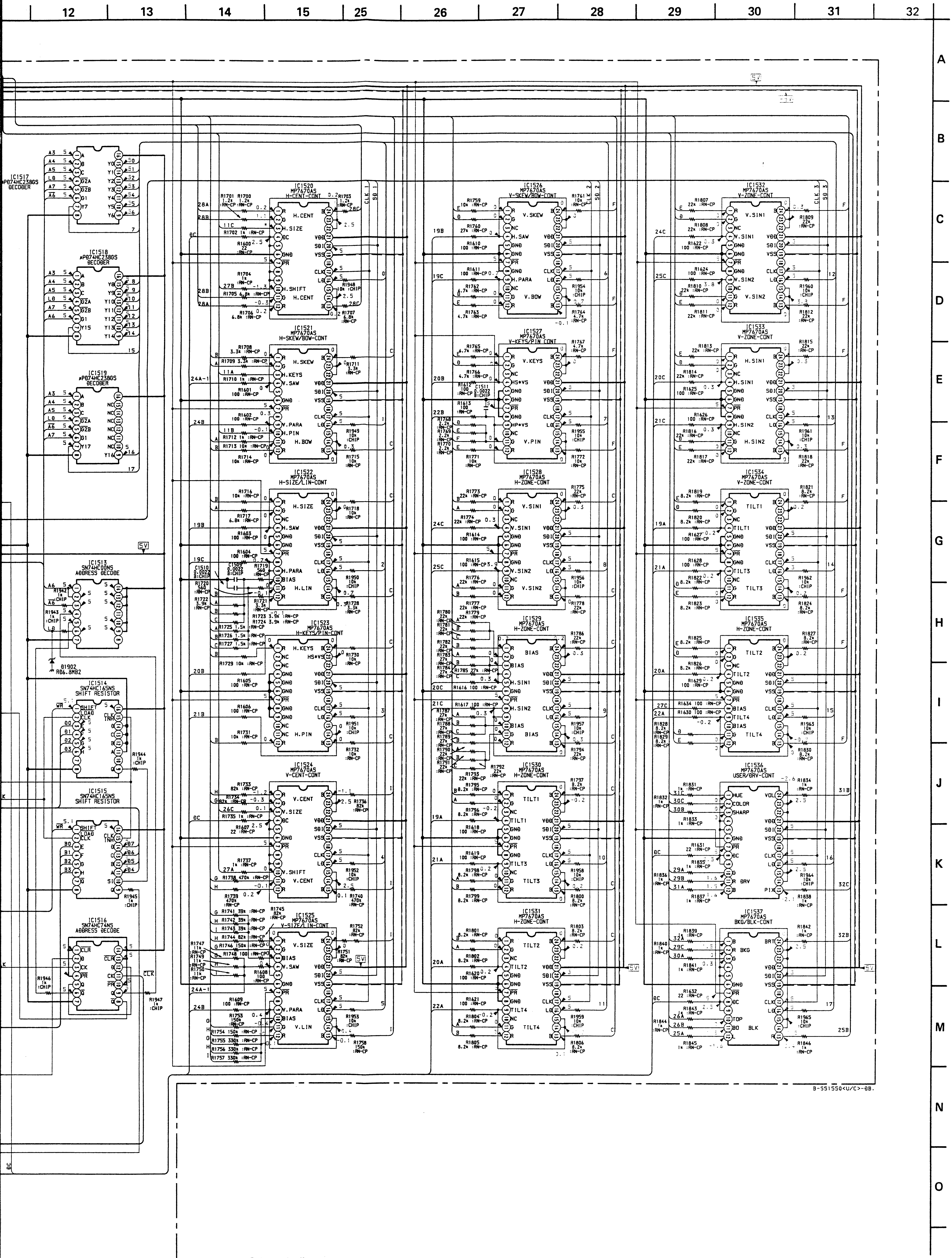
INTRODUCTION

1. Changed DB board.



CN181 96P
+5.7V
-5.7V
GND
V.DRIVE (R)
V.DRIVE (G)
V.DRIVE (B)
V.GND (R)
V.GND (G)
V.GND (B)
H.SUB (R)
H.SUB (G)
H.SUB (B)
V.SUB (R)
V.SUB (G)
V.SUB (B)
H.KEYS
H.PIN
H.SIZE
WR
TILT1
H.SAW
H.PARA
TILT2
HSXVS
H.SIN1
TILT3
HSXVP
H.SIN2
TILT4
HPXVS
V.SAW
V.PARA
V.SIN1
BLK (LEFT)
BLK (RIGHT)
V.SIN2
BLK (T)
BLK (B)
V.SIZE
V.SHIFT
H.SHIFT
H.CENT (R)
H.CENT (G)
H.CENT (B)
DRV (G)
DRV (R)
BKG (R)
BKG (G)
SHARP
COLOR
DRV (B)
VOL
HUE
BKG (B)
BRT
PIX
TO DM BOARD DM-3
L1501 45μH
L1502 45μH
C1501 470 16V
C1502 470 16V
D1503 1SS123 PROTECT
D1504 1SS123 PROTECT
D1505 1SS123 PROTECT
D1506 1SS123 PROTECT
D1507 1SS123 PROTECT
D1508 1SS123 PROTECT
D1501 V06C
D1502 V06C
D1509 1S2837
IC1501 LM2940CT-5.0 +5V-REG
IC1502 LM2990T-5.0 -5V-REG
IC1503 TL431CLP +2.5V-REG
R1541 0 :CHIP
R1500 22k :CHIP
R1633 220 :CHIP
R H.SUB
G H.SUB
B H.SUB
R V.SUB
G V.SUB
B V.SUB
TP1501 GND
R V.OUT
G V.OUT
B V.OUT
IC1538 (1/2) μPC814G2 SUB-OUT
IC1538 (2/2) μPC814G2 SUB-OUT
IC1539 (1/2) μPC814G2 SUB-OUT
IC1539 (2/2) μPC814G2 SUB-OUT
IC1540 (1/2) μPC814G2 SUB-OUT
IC1540 (2/2) μPC814G2 SUB-OUT
IC1541 (1/2) μPC4558G2 V-OUT
IC1541 (2/2) μPC4558G2 V-OUT
IC1542 μPC4558G2 V-OUT
IC1517 μPD74HC238GS DECODER
IC1504 SN74HC374NS DATA-BUS-BUFF
IC1505 SN74HC244NS DATA-BUS-BUFF
IC1506 SN74HC244NS DATA-BUS-BUFF
IC1507 SN74HC244NS DATA-BUS-BUFF
IC1508 SN74HC04NS CLK OSC
X1501 4.43MHz
IC1509 SN74HC74NS ADDRESS DECODE
IC1510 SN74HC08NS ADDRESS DECODE
IC1511 SN74HC86NS ADDRESS DECODE
IC1512 SN74HC163NS ADDRESS DECODE
D1901 RD6.8MB2
D1902 RD6.8MB2
R1542 0 :CHIP
CLK
5V
-5V
5Vライン
GND
-5Vライン

DB
(ELECTRONIC VR)

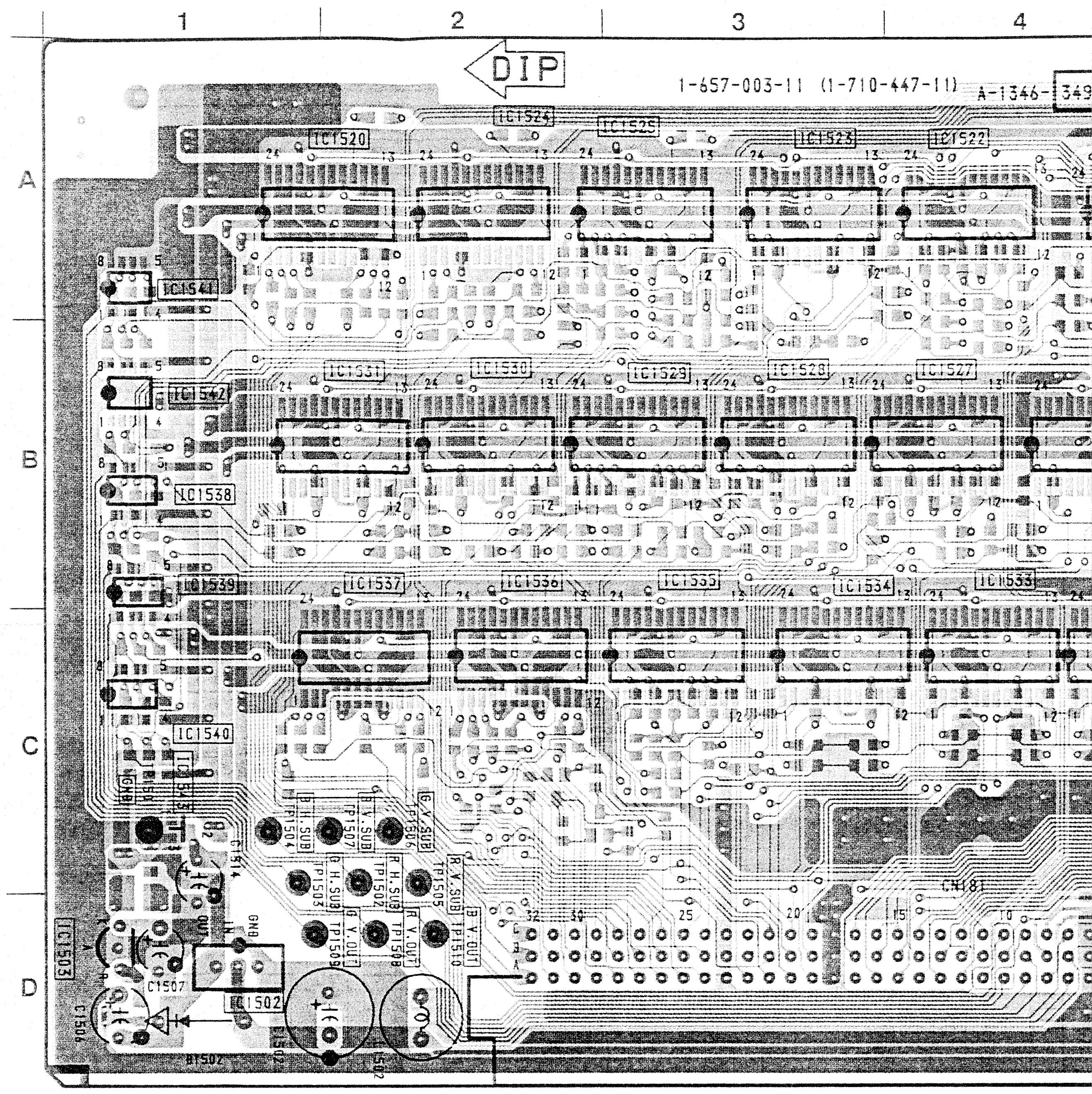

12
13
14
15
25
26
27
28
29
30
31
32
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
IC1517 μPD74HC238GS DECODER
IC1518 μPD74HC238GS DECODER
IC1519 μPD74HC238GS DECODER
IC1513 SN74HC00NS ADDRESS DECODE
IC1514 SN74HC165NS SHIFT RESISTOR
IC1515 SN74HC165NS SHIFT RESISTOR
IC1516 SN74HC74NS ADDRESS DECODE
D1902 RD6.8MB2
IC1520 MP7670AS H-CENT-CONT
IC1521 MP7670AS H-SKEW/BOW-CONT
IC1522 MP7670AS H-SIZE/LIN-CONT
IC1523 MP7670AS H-KEYS/PIN-CONT
IC1524 MP7670AS V-CENT-CONT
IC1525 MP7670AS V-SIZE/LIN-CONT
IC1526 MP7670AS V-SKEW/BOW-CONT
IC1527 MP7670AS V-KEYS/PIN-CONT
IC1528 MP7670AS H-ZONE-CONT
IC1529 MP7670AS H-ZONE-CONT
IC1530 MP7670AS H-ZONE-CONT
IC1531 MP7670AS H-ZONE-CONT
IC1532 MP7670AS V-ZONE-CONT
IC1533 MP7670AS V-ZONE-CONT
IC1534 MP7670AS V-ZONE-CONT
IC1535 MP7670AS H-ZONE-CONT
IC1536 MP7670AS USER/DRV-CONT
IC1537 MP7670AS BKG/BLK-CONT
5V
B-S51550<U/C>-DB.

Schematic diagram

← DB board

DB [ELECTRONIC VR]

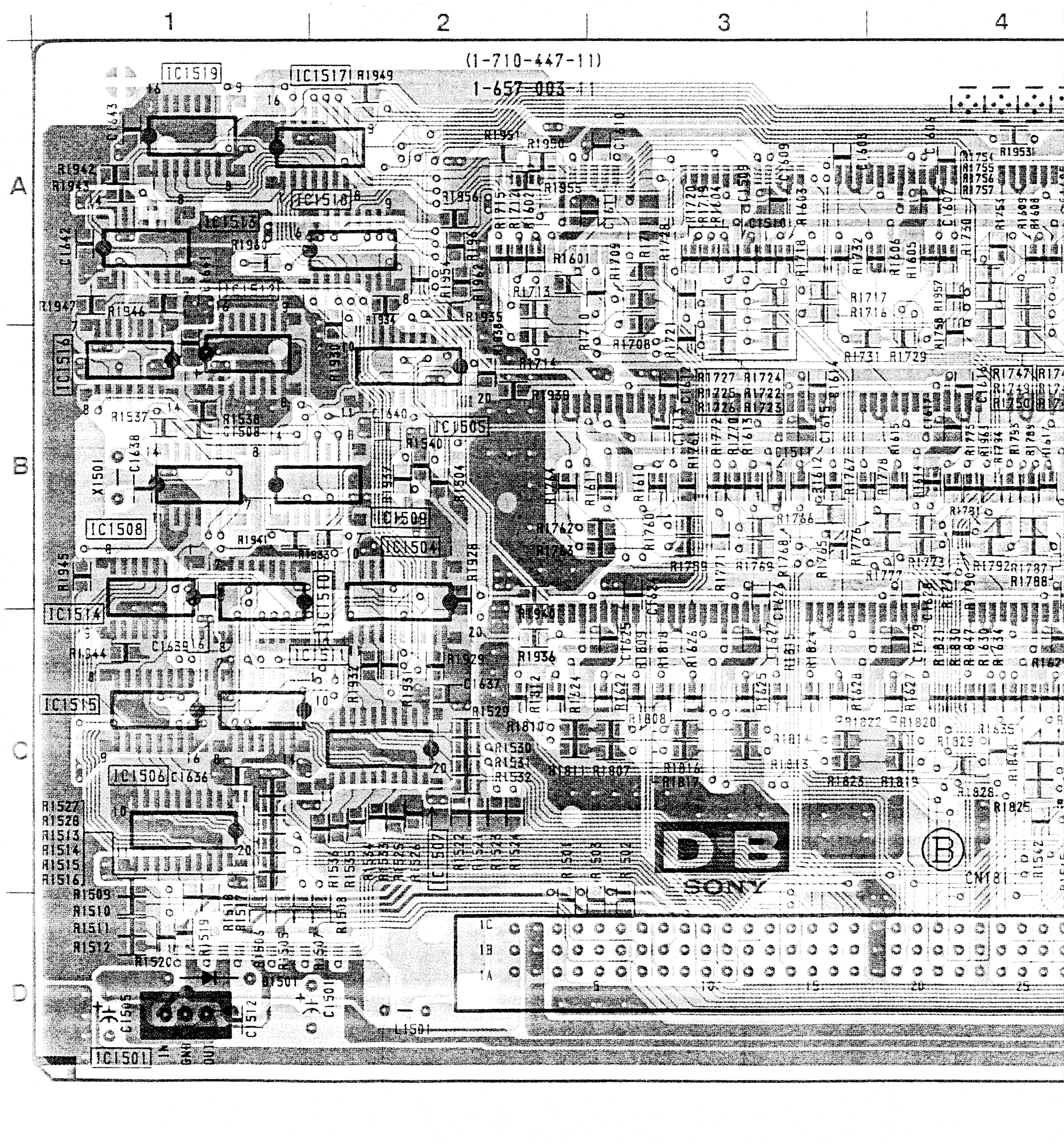
— DB BOARD — (Component side)


1
2
3
4
A
B
C
D
DIP
1-657-003-11 (1-710-447-11)
A-1346-349
IC1520
IC1524
IC1525
IC1523
IC1522
IC1541
IC1531
IC1530
IC1529
IC1528
IC1527
IC1542
IC1538
IC1539
IC1537
IC1536
IC1535
IC1534
IC1533
IC1540
IC1503
IC1502
C1507
R1502
TP1501
TP1502
TP1503
TP1504
TP1505
TP1506
TP1507
TP1508
TP1509
TP1510
CN181
GND

DB BOARD
(Component side)

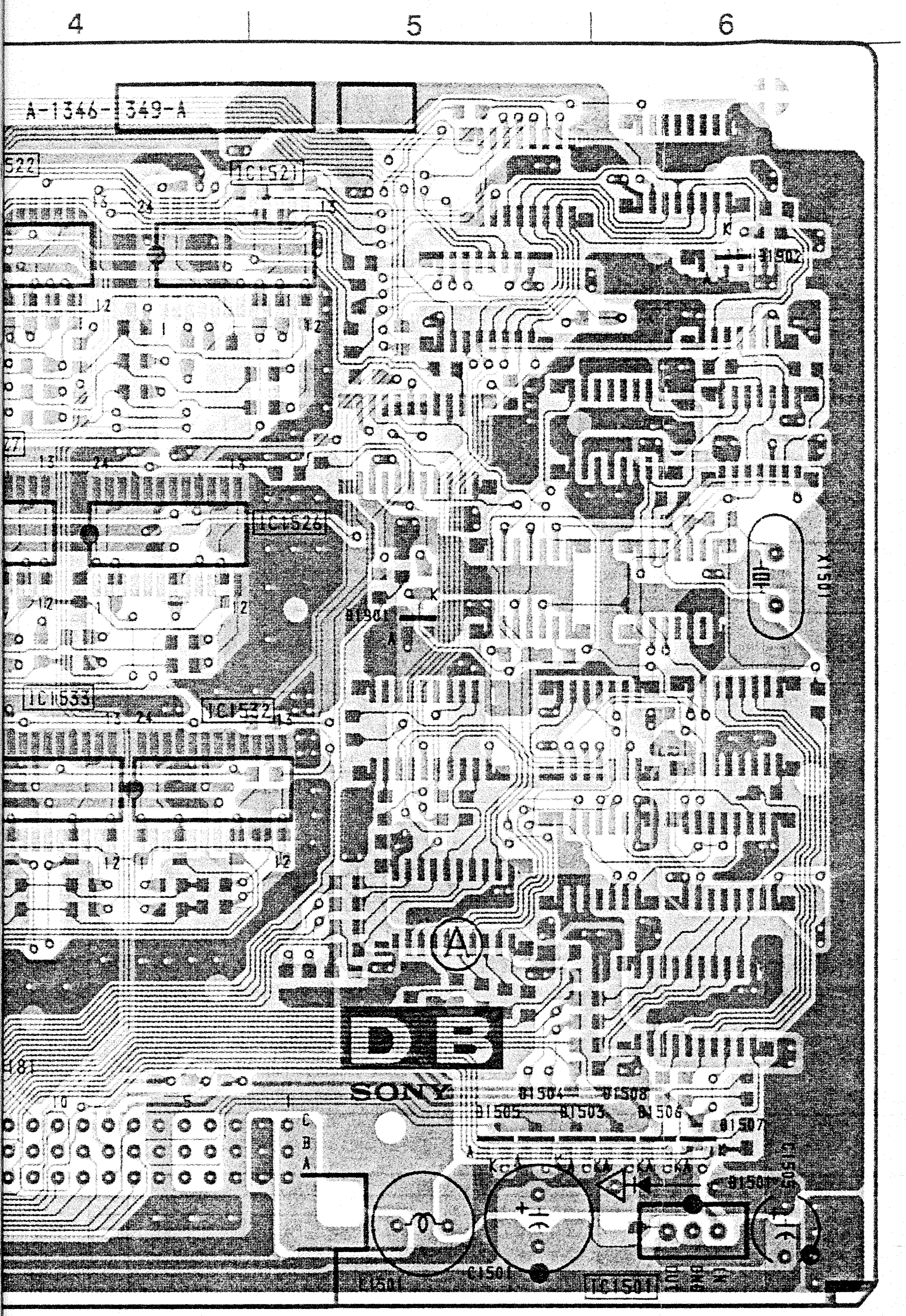
IC	
IC1501	D–6
IC1502	D–1
IC1520	A–2
IC1521	A–5
IC1522	A–4
IC1523	A–3
IC1524	A–2
IC1525	A–3
IC1526	B–5
IC1527	B–4
IC1528	B–3
IC1529	B–3
IC1530	B–2
IC1531	B–2
IC1532	B–4
IC1533	B–4
IC1534	B–3
IC1535	B–3
IC1536	B–2
IC1537	B–2
IC1538	B–1
IC1539	B–1
IC1540	C–1
IC1541	A–1
IC1542	B–1
DIODE	
D1503	D–5
D1504	D–5
D1505	D–5
D1506	D–6
D1507	D–6
D1508	D–6
D1901	A–6
D1902	B–5

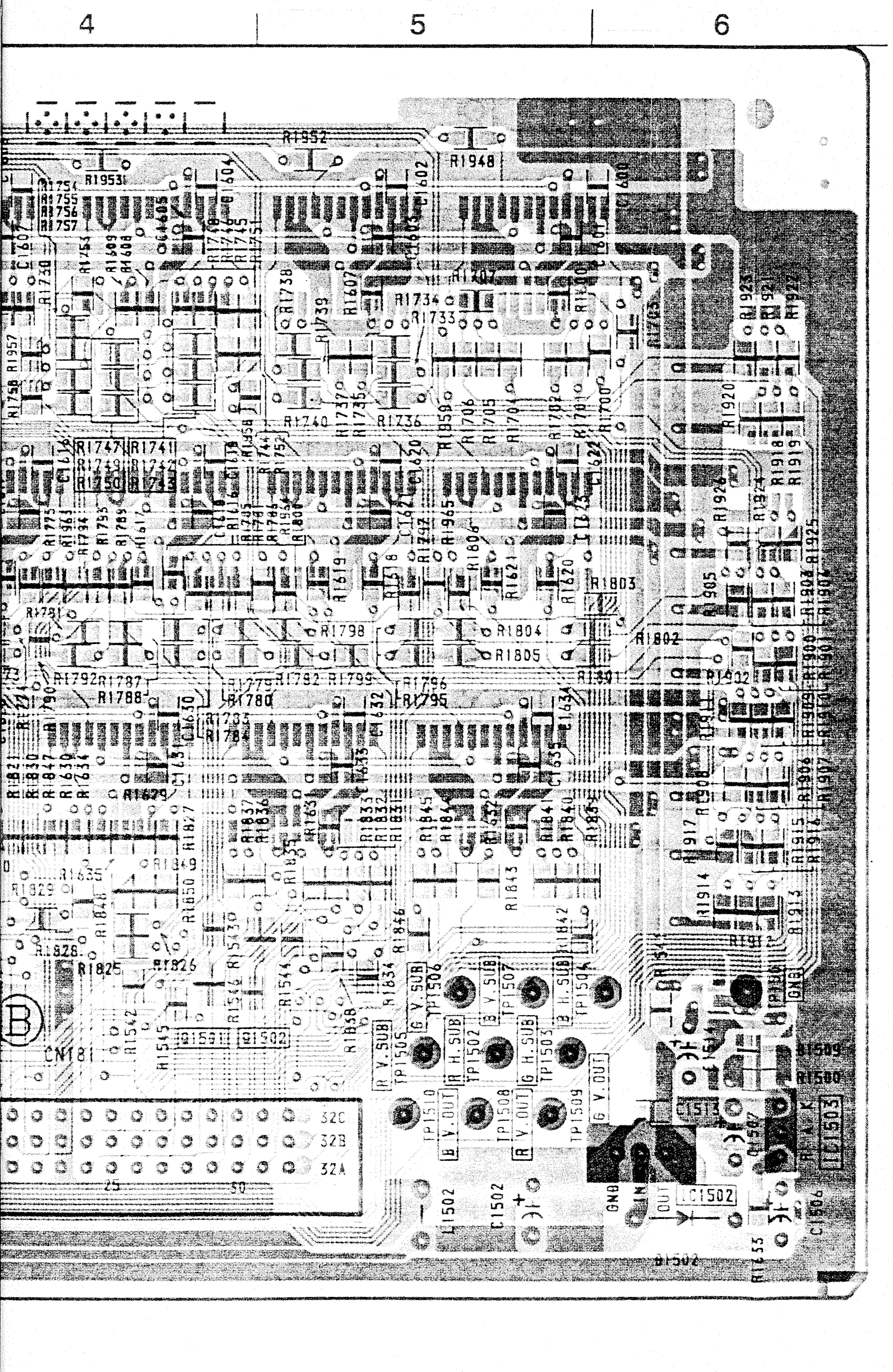
— DB BOARD — (Conductor side)

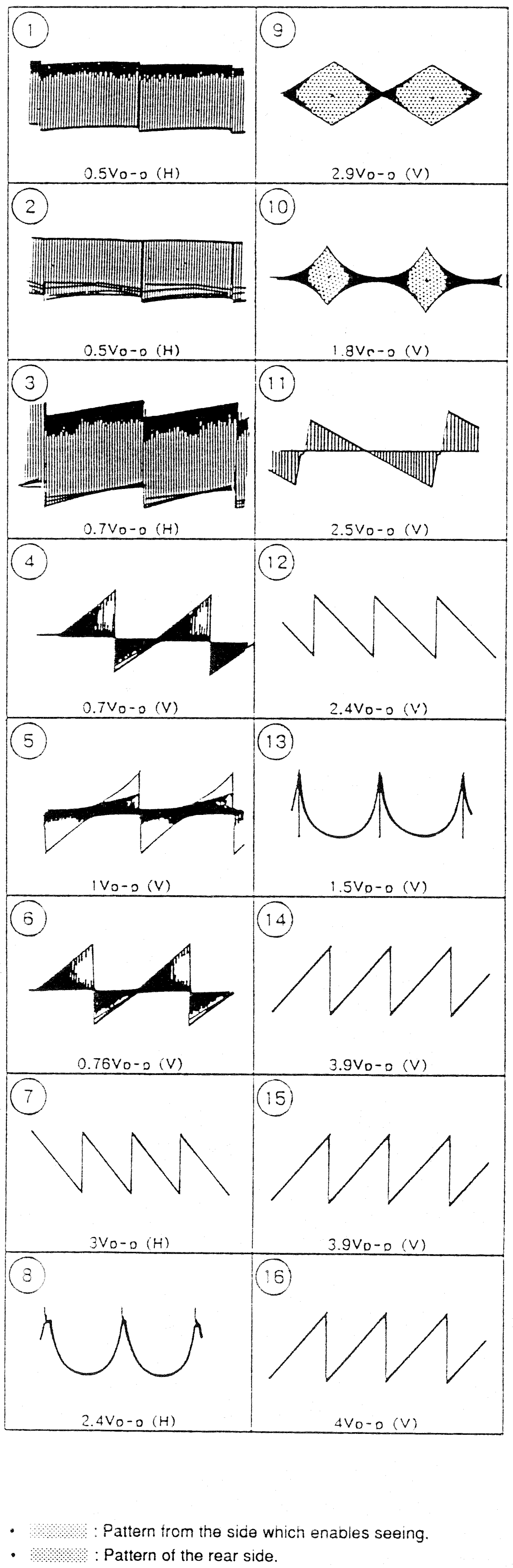

1
2
3
4
A
B
C
D
(1-710-447-11)
1-657-003-11
IC1519
IC1517
R1949
IC1518
IC1513
IC1512
IC1516
IC1505
IC1509
IC1508
IC1504
IC1510
IC1514
IC1511
IC1515
IC1506
IC1507
IC1501
X1501
L1501
DB
SONY
B
CN181

DB BOARD
(Conductor side)

IC	
IC1503	D–6
IC1504	B–2
IC1505	B–2
IC1506	C–1
IC1507	C–2
IC1508	B–1
IC1509	B–2
IC1510	B–2
IC1511	C–2
IC1512	A–1
IC1513	A–1
IC1514	C–1
IC1515	C–1
IC1516	B–1
IC1517	A–2
IC1518	A–2
IC1519	A–1
DIODE	
D1501	D–1
D1502	D–6
D1509	C–6


4
5
6
A-1346-349-A
DB
SONY
Ⓐ





- ▨ : Pattern from the side which enables seeing.
- ▨ : Pattern of the rear side.

DB

ELECTRICAL PARTS LIST

NOTE:

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés per un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

RESISTORS

- All resistors are in ohms
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

REF.NO.	PART NO.	DESCRIPTION			REMARK
	*A-1341-950-A	MOUNTED PCB, DB **************************			
	*1-657-003-11	PC BOARD, DB			
		<CAPACITOR>			
C1501	1-126-941-11	ELECT	470µF	20%	16V
C1502	1-126-941-11	ELECT	470µF	20%	16V
C1505	1-104-665-11	ELECT	100µF	20%	16V
C1506	1-104-665-11	ELECT	100µF	20%	16V
C1507	1-124-907-11	ELECT	10µF	20%	50V
C1508	1-163-243-11	CERAMIC CHIP	47pF	5%	50V
C1509	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V
C1510	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V
C1511	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V
C1512	1-163-031-11	CERAMIC CHIP	0.01µF	50V	
C1513	1-163-031-11	CERAMIC CHIP	0.01µF	50V	
C1514	1-126-967-11	ELECT	47µF	20%	16V
C1600	1-163-031-11	CERAMIC CHIP	0.01µF	50V	
C1601	1-163-031-11	CERAMIC CHIP	0.01µF	50V	
C1602	1-163-031-11	CERAMIC CHIP	0.01µF	50V	
C1603	1-163-031-11	CERAMIC CHIP	0.01µF	50V	
C1604	1-163-031-11	CERAMIC CHIP	0.01µF	50V	
C1605	1-163-031-11	CERAMIC CHIP	0.01µF	50V	
C1606	1-163-031-11	CERAMIC CHIP	0.01µF	50V	
C1607	1-163-031-11	CERAMIC CHIP	0.01µF	50V	
C1608	1-163-031-11	CERAMIC CHIP	0.01µF	50V	
C1609	1-163-031-11	CERAMIC CHIP	0.01µF	50V	
C1610	1-163-031-11	CERAMIC CHIP	0.01µF	50V	
C1611	1-163-031-11	CERAMIC CHIP	0.01µF	50V	
C1612	1-163-031-11	CERAMIC CHIP	0.01µF	50V	
C1613	1-163-031-11	CERAMIC CHIP	0.01µF	50V	
C1614	1-163-031-11	CERAMIC CHIP	0.01µF	50V	
C1615	1-163-031-11	CERAMIC CHIP	0.01µF	50V	
C1616	1-163-031-11	CERAMIC CHIP	0.01µF	50V	
C1617	1-163-031-11	CERAMIC CHIP	0.01µF	50V	
C1618	1-163-031-11	CERAMIC CHIP	0.01µF	50V	
C1619	1-163-031-11	CERAMIC CHIP	0.01µF	50V	
C1620	1-163-031-11	CERAMIC CHIP	0.01µF	50V	
C1621	1-163-031-11	CERAMIC CHIP	0.01µF	50V	
C1622	1-163-031-11	CERAMIC CHIP	0.01µF	50V	
C1623	1-163-031-11	CERAMIC CHIP	0.01µF	50V	
C1624	1-163-031-11	CERAMIC CHIP	0.01µF	50V	
C1625	1-163-031-11	CERAMIC CHIP	0.01µF	50V	
C1626	1-163-031-11	CERAMIC CHIP	0.01µF	50V	
C1627	1-163-031-11	CERAMIC CHIP	0.01µF	50V	
C1628	1-163-031-11	CERAMIC CHIP	0.01µF	50V	
C1629	1-163-031-11	CERAMIC CHIP	0.01µF	50V	
C1630	1-163-031-11	CERAMIC CHIP	0.01µF	50V	
C1631	1-163-031-11	CERAMIC CHIP	0.01µF	50V	
C1632	1-163-031-11	CERAMIC CHIP	0.01µF	50V	
C1633	1-163-031-11	CERAMIC CHIP	0.01µF	50V	
C1634	1-163-031-11	CERAMIC CHIP	0.01µF	50V	
C1635	1-163-031-11	CERAMIC CHIP	0.01µF	50V	
C1636	1-163-031-11	CERAMIC CHIP	0.01µF	50V	
C1637	1-163-031-11	CERAMIC CHIP	0.01µF	50V	
C1638	1-163-031-11	CERAMIC CHIP	0.01µF	50V	
C1639	1-163-031-11	CERAMIC CHIP	0.01µF	50V	
C1640	1-163-031-11	CERAMIC CHIP	0.01µF	50V	
C1641	1-163-031-11	CERAMIC CHIP	0.01µF	50V	
C1642	1-163-031-11	CERAMIC CHIP	0.01µF	50V	
C1643	1-163-031-11	CERAMIC CHIP	0.01µF	50V	
		<CONNECTOR>			
CN181	*1-766-305-11	PIN, PC CONNECTOR 96P			
		<DIODE>			
D1501	8-719-900-95	DIODE V09G			
D1502	8-719-900-95	DIODE V09G			
D1503	8-719-800-76	DIODE 1SS226			
D1504	8-719-800-76	DIODE 1SS226			
D1505	8-719-800-76	DIODE 1SS226			
D1506	8-719-800-76	DIODE 1SS226			
D1507	8-719-800-76	DIODE 1SS226			
D1508	8-719-800-76	DIODE 1SS226			
D1509	8-719-801-78	DIODE 1SS184			
D1901	8-719-106-17	DIODE RD6.8M-B2			
D1902	8-719-106-17	DIODE RD6.8M-B2			
		<IC>			
IC1501	8-759-144-82	IC µPC2405HF			

DB

REF.NO.	PART NO.	DESCRIPTION	REMARK
IC1502	8-759-247-67	IC LM2990T-5.0	
IC1503	8-759-908-15	IC TL431CLP	
IC1504	8-759-926-67	IC SN74HC374ANS	
IC1505	8-759-926-48	IC SN74HC244ANS	
IC1506	8-759-926-48	IC SN74HC244ANS	
IC1507	8-759-926-48	IC SN74HC244ANS	
IC1508	8-759-925-74	IC SN74HC04ANS	
IC1509	8-759-925-90	IC SN74HC74ANS	
IC1510	8-759-925-76	IC SN74HC08ANS	
IC1511	8-759-239-23	IC TC74HC86AF	
IC1512	8-759-232-74	IC TC74HC163AF	
IC1513	8-759-927-46	IC SN74HC00ANS	
IC1514	8-759-236-51	IC TC74HC165AF(EL)	
IC1515	8-759-236-51	IC TC74HC165AF(EL)	
IC1516	8-759-925-90	IC SN74HC74ANS	
IC1517	8-759-267-60	IC µPD74HC238GS-E2	
IC1518	8-759-267-60	IC µPD74HC238GS-E2	
IC1519	8-759-267-60	IC µPD74HC238GS-E2	
IC1520	8-759-326-65	IC MP7670AS-TE2	
IC1521	8-759-326-65	IC MP7670AS-TE2	
IC1522	8-759-326-65	IC MP7670AS-TE2	
IC1523	8-759-326-65	IC MP7670AS-TE2	
IC1524	8-759-326-65	IC MP7670AS-TE2	
IC1525	8-759-326-65	IC MP7670AS-TE2	
IC1526	8-759-326-65	IC MP7670AS-TE2	
IC1527	8-759-326-65	IC MP7670AS-TE2	
IC1528	8-759-326-65	IC MP7670AS-TE2	
IC1529	8-759-326-65	IC MP7670AS-TE2	
IC1530	8-759-326-65	IC MP7670AS-TE2	
IC1531	8-759-326-65	IC MP7670AS-TE2	
IC1532	8-759-326-65	IC MP7670AS-TE2	
IC1533	8-759-326-65	IC MP7670AS-TE2	
IC1534	8-759-326-65	IC MP7670AS-TE2	
IC1535	8-759-326-65	IC MP7670AS-TE2	
IC1536	8-759-326-65	IC MP7670AS-TE2	
IC1537	8-759-326-65	IC MP7670AS-TE2	
IC1538	8-759-114-06	IC µPC814G2-1	
IC1539	8-759-114-06	IC µPC814G2-1	
IC1540	8-759-114-06	IC µPC814G2-1	
IC1541	8-759-100-96	IC µPC4558G2	
IC1542	8-759-100-96	IC µPC4558G2	
		<COIL>	
L1501	1-459-155-00	COIL (WITH CORE) 45µH	
L1502	1-459-155-00	COIL (WITH CORE) 45µH	
		<RESISTOR>	
R1500	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R1501	1-216-627-11	METAL CHIP 100	0.5% 1/10W
R1502	1-216-627-11	METAL CHIP 100	0.5% 1/10W
R1503	1-216-627-11	METAL CHIP 100	0.5% 1/10W
R1504	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1505	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R1506	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R1507	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R1508	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R1509	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R1510	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R1511	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R1512	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R1513	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1514	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1515	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1516	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1517	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1518	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1519	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1520	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1521	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R1522	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R1523	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R1524	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R1525	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R1526	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R1527	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R1528	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R1529	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1530	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1531	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1532	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1533	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1534	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1535	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1536	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1537	1-216-659-11	METAL CHIP 2.2K	0.5% 1/10W
R1538	1-216-659-11	METAL CHIP 2.2K	0.5% 1/10W
R1540	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R1541	1-216-295-91	CONDUCTOR, CHIP	(2012)
R1542	1-216-295-91	CONDUCTOR, CHIP	(2012)
R1600	1-216-611-11	METAL CHIP 22	0.5% 1/10W
R1601	1-216-627-11	METAL CHIP 100	0.5% 1/10W
R1602	1-216-627-11	METAL CHIP 100	0.5% 1/10W
R1603	1-216-627-11	METAL CHIP 100	0.5% 1/10W
R1604	1-216-627-11	METAL CHIP 100	0.5% 1/10W
R1605	1-216-627-11	METAL CHIP 100	0.5% 1/10W
R1606	1-216-627-11	METAL CHIP 100	0.5% 1/10W
R1607	1-216-611-11	METAL CHIP 22	0.5% 1/10W
R1608	1-216-627-11	METAL CHIP 100	0.5% 1/10W
R1609	1-216-627-11	METAL CHIP 100	0.5% 1/10W
R1610	1-216-627-11	METAL CHIP 100	0.5% 1/10W
R1611	1-216-627-11	METAL CHIP 100	0.5% 1/10W
R1612	1-216-627-11	METAL CHIP 100	0.5% 1/10W
R1613	1-216-627-11	METAL CHIP 100	0.5% 1/10W
R1614	1-216-627-11	METAL CHIP 100	0.5% 1/10W
R1615	1-216-627-11	METAL CHIP 100	0.5% 1/10W
R1616	1-216-627-11	METAL CHIP 100	0.5% 1/10W
R1617	1-216-627-11	METAL CHIP 100	0.5% 1/10W
R1618	1-216-627-11	METAL CHIP 100	0.5% 1/10W
R1619	1-216-627-11	METAL CHIP 100	0.5% 1/10W
R1620	1-216-627-11	METAL CHIP 100	0.5% 1/10W

DB

REF.NO.	PART NO.	DESCRIPTION		REMARK	
R1621	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R1622	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R1624	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R1625	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R1626	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R1627	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R1628	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R1629	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R1630	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R1631	1-216-611-11	METAL CHIP	22	0.5%	1/10W
R1632	1-216-611-11	METAL CHIP	22	0.5%	1/10W
R1633	1-216-033-00	METAL GLAZE	220	5%	1/10W
R1634	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R1700	1-208-784-11	METAL CHIP	1.2K	0.5%	1/10W
R1701	1-208-784-11	METAL CHIP	1.2K	0.5%	1/10W
R1702	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R1703	1-208-784-11	METAL CHIP	1.2K	0.5%	1/10W
R1704	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R1705	1-216-671-11	METAL CHIP	6.8K	0.5%	1/10W
R1706	1-216-671-11	METAL CHIP	6.8K	0.5%	1/10W
R1707	1-216-671-11	METAL CHIP	6.8K	0.5%	1/10W
R1708	1-216-663-11	METAL CHIP	3.3K	0.5%	1/10W
R1709	1-216-663-11	METAL CHIP	3.3K	0.5%	1/10W
R1710	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R1711	1-216-663-11	METAL CHIP	3.3K	0.5%	1/10W
R1712	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R1713	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R1714	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R1715	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R1716	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R1717	1-216-671-11	METAL CHIP	6.8K	0.5%	1/10W
R1718	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R1719	1-216-645-11	METAL CHIP	560	0.5%	1/10W
R1720	1-216-645-11	METAL CHIP	560	0.5%	1/10W
R1721	1-216-663-11	METAL CHIP	3.3K	0.5%	1/10W
R1722	1-216-665-11	METAL CHIP	3.9K	0.5%	1/10W
R1723	1-216-665-11	METAL CHIP	3.9K	0.5%	1/10W
R1724	1-216-665-11	METAL CHIP	3.9K	0.5%	1/10W
R1725	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W
R1726	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W
R1727	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W
R1728	1-216-663-11	METAL CHIP	3.3K	0.5%	1/10W
R1729	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R1730	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R1731	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R1732	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R1733	1-216-697-91	METAL CHIP	82K	0.5%	1/10W
R1734	1-216-697-91	METAL CHIP	82K	0.5%	1/10W
R1735	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R1736	1-216-697-91	METAL CHIP	82K	0.5%	1/10W
R1737	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R1738	1-218-768-11	METAL CHIP	470K	0.5%	1/10W
R1739	1-218-768-11	METAL CHIP	470K	0.5%	1/10W
R1740	1-218-768-11	METAL CHIP	470K	0.5%	1/10W
R1741	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R1742	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R1743	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R1744	1-216-697-91	METAL CHIP	82K	0.5%	1/10W
R1745	1-216-697-91	METAL CHIP	82K	0.5%	1/10W
R1746	1-218-756-11	METAL CHIP	150K	0.5%	1/10W
R1747	1-216-676-11	METAL CHIP	11K	0.5%	1/10W
R1748	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R1749	1-216-676-11	METAL CHIP	11K	0.5%	1/10W
R1750	1-216-676-11	METAL CHIP	11K	0.5%	1/10W
R1751	1-216-697-91	METAL CHIP	82K	0.5%	1/10W
R1752	1-216-697-91	METAL CHIP	82K	0.5%	1/10W
R1753	1-218-756-11	METAL CHIP	150K	0.5%	1/10W
R1754	1-218-756-11	METAL CHIP	150K	0.5%	1/10W
R1755	1-218-764-11	METAL CHIP	330K	0.5%	1/10W
R1756	1-218-764-11	METAL CHIP	330K	0.5%	1/10W
R1757	1-218-764-11	METAL CHIP	330K	0.5%	1/10W
R1758	1-218-756-11	METAL CHIP	150K	0.5%	1/10W
R1759	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R1760	1-216-685-11	METAL CHIP	27K	0.5%	1/10W
R1761	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R1762	1-216-667-11	METAL CHIP	4.7K	0.5%	1/10W
R1763	1-216-667-11	METAL CHIP	4.7K	0.5%	1/10W
R1764	1-216-667-11	METAL CHIP	4.7K	0.5%	1/10W
R1765	1-216-667-11	METAL CHIP	4.7K	0.5%	1/10W
R1766	1-216-667-11	METAL CHIP	4.7K	0.5%	1/10W
R1767	1-216-667-11	METAL CHIP	4.7K	0.5%	1/10W
R1768	1-216-659-11	METAL CHIP	2.2K	0.5%	1/10W
R1769	1-216-659-11	METAL CHIP	2.2K	0.5%	1/10W
R1770	1-216-659-11	METAL CHIP	2.2K	0.5%	1/10W
R1771	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R1772	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R1773	1-208-814-11	METAL CHIP	22K	0.5%	1/10W
R1774	1-208-814-11	METAL CHIP	22K	0.5%	1/10W
R1775	1-208-814-11	METAL CHIP	22K	0.5%	1/10W
R1776	1-208-814-11	METAL CHIP	22K	0.5%	1/10W
R1777	1-208-814-11	METAL CHIP	22K	0.5%	1/10W
R1778	1-208-814-11	METAL CHIP	22K	0.5%	1/10W
R1779	1-208-814-11	METAL CHIP	22K	0.5%	1/10W
R1780	1-208-814-11	METAL CHIP	22K	0.5%	1/10W
R1781	1-208-814-11	METAL CHIP	22K	0.5%	1/10W
R1782	1-208-814-11	METAL CHIP	22K	0.5%	1/10W
R1783	1-216-685-11	METAL CHIP	27K	0.5%	1/10W
R1784	1-216-685-11	METAL CHIP	27K	0.5%	1/10W
R1785	1-216-685-11	METAL CHIP	27K	0.5%	1/10W
R1786	1-208-814-11	METAL CHIP	22K	0.5%	1/10W
R1787	1-216-685-11	METAL CHIP	27K	0.5%	1/10W
R1788	1-216-685-11	METAL CHIP	27K	0.5%	1/10W
R1789	1-216-685-11	METAL CHIP	27K	0.5%	1/10W
R1790	1-208-814-11	METAL CHIP	22K	0.5%	1/10W
R1791	1-208-814-11	METAL CHIP	22K	0.5%	1/10W
R1792	1-208-814-11	METAL CHIP	22K	0.5%	1/10W
R1793	1-208-814-11	METAL CHIP	22K	0.5%	1/10W
R1794	1-208-814-11	METAL CHIP	22K	0.5%	1/10W
R1795	1-216-673-11	METAL CHIP	8.2K	0.5%	1/10W
R1796	1-216-673-11	METAL CHIP	8.2K	0.5%	1/10W
R1797	1-216-673-11	METAL CHIP	8.2K	0.5%	1/10W
R1798	1-216-673-11	METAL CHIP	8.2K	0.5%	1/10W

DB

REF.NO.	PART NO.	DESCRIPTION	REMARK
R1799	1-216-673-11	METAL CHIP 8.2K	0.5% 1/10W
R1800	1-216-673-11	METAL CHIP 8.2K	0.5% 1/10W
R1801	1-216-673-11	METAL CHIP 8.2K	0.5% 1/10W
R1802	1-216-673-11	METAL CHIP 8.2K	0.5% 1/10W
R1803	1-216-673-11	METAL CHIP 8.2K	0.5% 1/10W
R1804	1-216-673-11	METAL CHIP 8.2K	0.5% 1/10W
R1805	1-216-673-11	METAL CHIP 8.2K	0.5% 1/10W
R1806	1-216-673-11	METAL CHIP 8.2K	0.5% 1/10W
R1807	1-208-814-11	METAL CHIP 22K	0.5% 1/10W
R1808	1-208-814-11	METAL CHIP 22K	0.5% 1/10W
R1809	1-208-814-11	METAL CHIP 22K	0.5% 1/10W
R1810	1-208-814-11	METAL CHIP 22K	0.5% 1/10W
R1811	1-208-814-11	METAL CHIP 22K	0.5% 1/10W
R1812	1-208-814-11	METAL CHIP 22K	0.5% 1/10W
R1813	1-208-814-11	METAL CHIP 22K	0.5% 1/10W
R1814	1-208-814-11	METAL CHIP 22K	0.5% 1/10W
R1815	1-208-814-11	METAL CHIP 22K	0.5% 1/10W
R1816	1-208-814-11	METAL CHIP 22K	0.5% 1/10W
R1817	1-208-814-11	METAL CHIP 22K	0.5% 1/10W
R1818	1-208-814-11	METAL CHIP 22K	0.5% 1/10W
R1819	1-216-673-11	METAL CHIP 8.2K	0.5% 1/10W
R1820	1-216-673-11	METAL CHIP 8.2K	0.5% 1/10W
R1821	1-216-673-11	METAL CHIP 8.2K	0.5% 1/10W
R1822	1-216-673-11	METAL CHIP 8.2K	0.5% 1/10W
R1823	1-216-673-11	METAL CHIP 8.2K	0.5% 1/10W
R1824	1-216-673-11	METAL CHIP 8.2K	0.5% 1/10W
R1825	1-216-673-11	METAL CHIP 8.2K	0.5% 1/10W
R1826	1-216-673-11	METAL CHIP 8.2K	0.5% 1/10W
R1827	1-216-673-11	METAL CHIP 8.2K	0.5% 1/10W
R1828	1-216-673-11	METAL CHIP 8.2K	0.5% 1/10W
R1829	1-216-673-11	METAL CHIP 8.2K	0.5% 1/10W
R1830	1-216-673-11	METAL CHIP 8.2K	0.5% 1/10W
R1831	1-216-651-11	METAL CHIP 1K	0.5% 1/10W
R1832	1-216-651-11	METAL CHIP 1K	0.5% 1/10W
R1833	1-216-651-11	METAL CHIP 1K	0.5% 1/10W
R1834	1-216-651-11	METAL CHIP 1K	0.5% 1/10W
R1835	1-216-651-11	METAL CHIP 1K	0.5% 1/10W
R1836	1-216-651-11	METAL CHIP 1K	0.5% 1/10W
R1837	1-216-651-11	METAL CHIP 1K	0.5% 1/10W
R1838	1-216-651-11	METAL CHIP 1K	0.5% 1/10W
R1839	1-216-651-11	METAL CHIP 1K	0.5% 1/10W
R1840	1-216-651-11	METAL CHIP 1K	0.5% 1/10W
R1841	1-216-651-11	METAL CHIP 1K	0.5% 1/10W
R1842	1-216-651-11	METAL CHIP 1K	0.5% 1/10W
R1843	1-216-651-11	METAL CHIP 1K	0.5% 1/10W
R1844	1-216-651-11	METAL CHIP 1K	0.5% 1/10W
R1845	1-216-651-11	METAL CHIP 1K	0.5% 1/10W
R1846	1-216-651-11	METAL CHIP 1K	0.5% 1/10W
R1900	1-216-661-11	METAL CHIP 2.7K	0.5% 1/10W
R1901	1-216-651-11	METAL CHIP 1K	0.5% 1/10W
R1902	1-216-651-11	METAL CHIP 1K	0.5% 1/10W
R1903	1-216-661-11	METAL CHIP 2.7K	0.5% 1/10W
R1904	1-216-651-11	METAL CHIP 1K	0.5% 1/10W
R1905	1-216-651-11	METAL CHIP 1K	0.5% 1/10W
R1906	1-216-661-11	METAL CHIP 2.7K	0.5% 1/10W
R1907	1-216-651-11	METAL CHIP 1K	0.5% 1/10W

REF.NO.	PART NO.	DESCRIPTION	REMARK
R1908	1-216-651-11	METAL CHIP 1K	0.5% 1/10W
R1909	1-216-661-11	METAL CHIP 2.7K	0.5% 1/10W
R1910	1-216-651-11	METAL CHIP 1K	0.5% 1/10W
R1911	1-216-651-11	METAL CHIP 1K	0.5% 1/10W
R1912	1-216-661-11	METAL CHIP 2.7K	0.5% 1/10W
R1913	1-216-651-11	METAL CHIP 1K	0.5% 1/10W
R1914	1-216-651-11	METAL CHIP 1K	0.5% 1/10W
R1915	1-216-661-11	METAL CHIP 2.7K	0.5% 1/10W
R1916	1-216-651-11	METAL CHIP 1K	0.5% 1/10W
R1917	1-216-651-11	METAL CHIP 1K	0.5% 1/10W
R1918	1-208-810-11	METAL CHIP 15K	0.5% 1/10W
R1919	1-216-627-11	METAL CHIP 100	0.5% 1/10W
R1920	1-216-651-11	METAL CHIP 1K	0.5% 1/10W
R1921	1-208-810-11	METAL CHIP 15K	0.5% 1/10W
R1922	1-216-627-11	METAL CHIP 100	0.5% 1/10W
R1923	1-216-651-11	METAL CHIP 1K	0.5% 1/10W
R1924	1-208-810-11	METAL CHIP 15K	0.5% 1/10W
R1925	1-216-627-11	METAL CHIP 100	0.5% 1/10W
R1926	1-216-651-11	METAL CHIP 1K	0.5% 1/10W
R1928	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R1929	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R1930	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R1931	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R1932	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R1933	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1934	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1935	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1936	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1937	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1938	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1939	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1940	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1941	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1942	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1943	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1944	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1945	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1946	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1947	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1948	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1949	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1950	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1951	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1952	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1953	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1954	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1955	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1956	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1957	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1958	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1959	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1960	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1961	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1962	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1963	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1964	1-216-073-00	METAL GLAZE 10K	5% 1/10W

REF.NO.	PART NO.	DESCRIPTION		REMARK
R1965	1-216-073-00	METAL GLAZE 10K	5%	1/10W
	<CRYSTAL>			
X1501	1-567-504-11	OSCILLATOR, CRYSTAL		

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B&I Systems Company

VPH-1252QM/Q

RM-1271

SONY®

SERVICE MANUAL

VPH-1252QM
AEP Model
Serial No. 2,000,001 and later
Chassis No. SCC-D13E-A

VPH-1252Q
US and Canadian Model
Serial No. 2,000,001 and later
Chassis No. SCC-D-27E-A

SUPPLEMENT

File this supplement with the service manual.

INTRODUCTION

Subject : Change of K, DM, E, PA, Y, BB Boards, and Power Supply.

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Model/Serial No.

VPH-1272QM 2000001-
VPH-1272Q 2000001-
VPH-1252QM 2000001-
VPH-1252Q 2000001-

Description

To improve the Picture quality, the following components have been changed.

1. K Board, DM Board
2. E Board, PA Board
3. Power Supply Block
4. Y Board
5. BB Complete Mounted Circuit Board

The color of the model plate has been changed from blue to silver.

[1] K Board

The dynamic focus at input of frequency horizontal signal has been improved.

1. Change from K mounted circuit board to KC mounted circuit board.
   Former : K mounted circuit board A-1380-466-A
   New : KC mounted circuit board A-1380-521-A
2. KF board is newly created.
   New : KF mounted circuit board A-1380-522-A
3. DM mounted circuit board

Model	Former	New
VPH-1272QM VPH-1272Q	A-1341-443-A	A-1341-443-B
VPH-1252QM VPH-1252Q	A1341-483-A	A-1341-483-B

Former and new boards of K and DM are not compatible. Use the former board for units with serial No. earlier than above-mentioned.

[2] E Board, PA Board

High-Voltage Picture Bending has been corrected.

Board	Former	New
E Board	A-1346-190-A	A-1346-190-B
PA Board	A-1195-081-B	A-1195-081-C

The former and new boards are compatible. However, High-Voltag Picture Bending can not be corrected. Because the wires connectin between connector E-14 and CN-296 are not provided for the forme board. Thus, the correction signal can not be fed between the E boar and PA board.

When replacing the E or PA board on the units with serial No. highe than the above-mentioned, perform High-Voltage Picture Bendin adjustment.

[3] Power Supply Block

Turning power on from the RS-422 is available.

Model	Former	New
VPH-1272Q VPH-1252Q	1-413-934-11	1-413-934-12
VPH-1272QM VPH-1252QM	1-413-935-11	1-413-935-12

The former and new power supply blocks are compatible.

[4] Y Board

The power on/off from RS-422 and the SW'ER selection are availabl The left edge of TEST PATTERN does not appear. This proble has been corrected.

Model	Former	New
VPH-1272Q VPH-1272QM VPH-1252Q VPH-1252QM	A-1394-677-A	A-1394-749-A

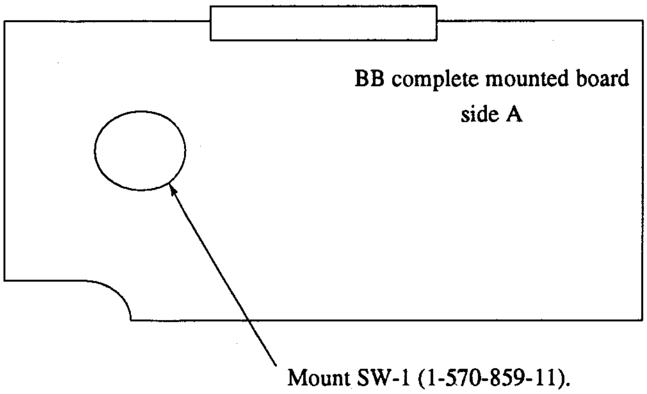
The former and new Y boards are NOT compatible.

[5] BB Complete Mounted Circuit

5BNC switch relocated on the panel. Therefore, the switch selection is possible without plugging out the BB board.

Model	Former	New
VPH-1272Q VPH-1272QM VPH-1252Q VPH-1252QM	A-1135-693-A	A-1135-693-B

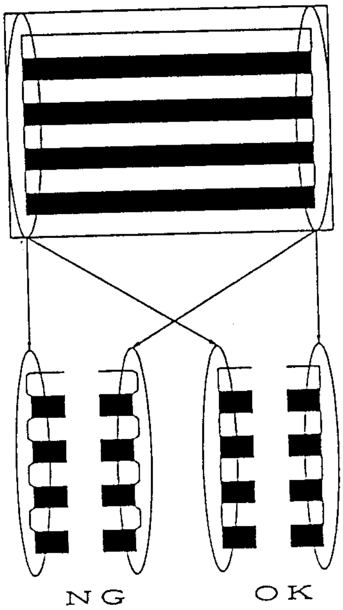
When using a new BB complete mounted circuit board in units with serial No. earlier than the mentioned, mount the SW-1 on the BB board as shown below.


BB complete mounted board
side A
Mount SW-1 (1-570-859-11).

SECTION 1
SET-UP ADJUSTMENT

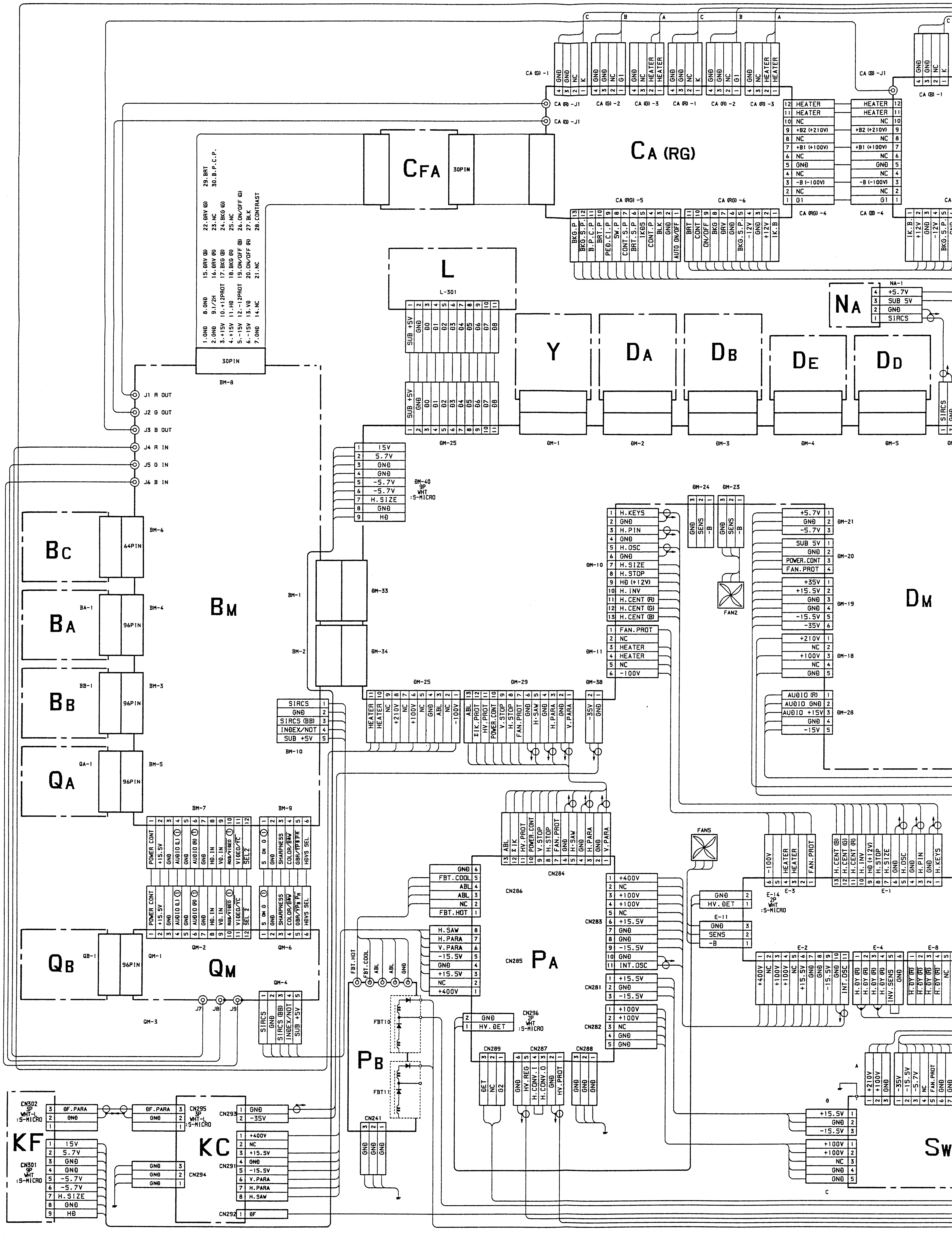
1-1.HIGH-VOLTAGE PICTURE BENDING ADJUSTMENT

1. RV101 Adjustment (E Board)
   1. Press the INPUT A key to receive and show the RGB stripe signal of fH : 31.5kHz.
   2. Keep pressing the CONTR and BRIGHT (+) keys until their levels become MAX.
   3. Adjust RV101 on the E board until the vertical lines in the right and left become straight.

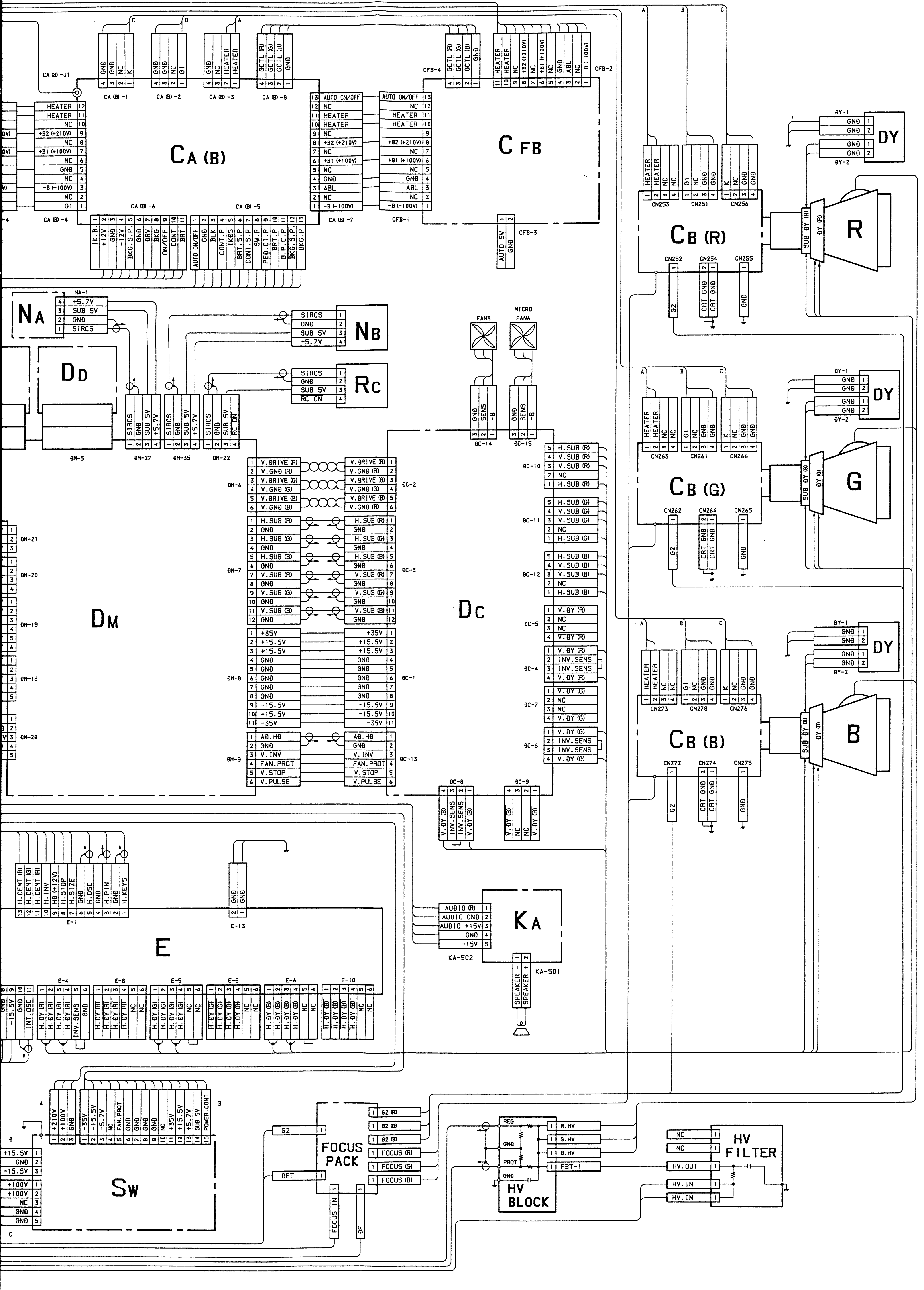


SECTION 2
DIAGRAMS

2-1. FRAME SCHEMATIC DIAGRAMS



CFA
30PIN
CA (RG)
CA (G) -1
CA (R) -J1
CA (G) -J1
CA (G) -2
CA (G) -3
CA (R) -1
CA (R) -2
CA (R) -3
CA (B) -J1
CA (B) -1
CA (RG) -5
CA (RG) -6
CA (RG) -4
CA (B) -4
L
L-301
Y
DA
DB
DE
DD
NA
NA-1
BM-8
J1 R OUT
J2 G OUT
J3 B OUT
J4 R IN
J5 G IN
J6 B IN
BC
BA
BB
QA
BM
BM-6
BM-4
BM-3
BM-5
64PIN
96PIN
BM-1
BM-2
BM-7
BM-9
BM-10
DM-33
DM-34
DM-25
DM-29
DM-38
DM-40
9P
WHT
:S-MICRO
DM-10
DM-11
DM-24
DM-23
FAN2
DM
DM-21
DM-20
DM-19
DM-18
DM-28
DM-1
DM-2
DM-3
DM-4
DM-5
QB
QM
QB-1
QM-1
QM-2
QM-3
QM-4
QM-6
J7
J8
J9
PA
PB
CN284
CN286
CN285
CN283
CN281
CN282
CN296
CN289
CN287
CN288
CN241
FBT10
FBT11
FAN5
E-1
E-2
E-3
E-4
E-8
E-11
E-14
SW
KF
KC
CN302
CN301
CN295
CN293
CN291
CN292
CN294


CA (B)
CFB
CB (R)
CB (G)
CB (B)
DY
R
G
B
NA
NB
RC
DD
DM
DC
KA
E
SW
FOCUS PACK
HV BLOCK
HV FILTER
FAN3
MICRO FAN6
CA (B) -J1
CA (B) -1
CA (B) -2
CA (B) -3
CA (B) -8
CA (B) -4
CA (B) -5
CA (B) -6
CA (B) -7
CFB-1
CFB-2
CFB-3
CFB-4
HEATER
NC
+B2 (+210V)
+B1 (+100V)
GND
-B (-100V)
G1
K
GCTL (R)
GCTL (G)
GCTL (B)
AUTO ON/OFF
ABL
AUTO SW
IK.B
+12V
-12V
BKG.S.P
DRV
BKG
ON/OFF
CONT
BRT
BLK
CONT.P
IKDS
BRT.S.P
CONT.S.P
SW.P
PED.CI.P
BRT.P
B.P.C.P
BKG.P
NA-1
+5.7V
SUB 5V
SIRCS
RC ON
DM-5
DM-27
DM-35
DM-22
DM-6
DM-7
DM-8
DM-9
DM-18
DM-19
DM-20
DM-21
DM-28
DC-1
DC-2
DC-3
DC-4
DC-5
DC-6
DC-7
DC-8
DC-9
DC-10
DC-11
DC-12
DC-13
DC-14
DC-15
SENS
-B
V.DRIVE (R)
V.GND (R)
V.DRIVE (G)
V.GND (G)
V.DRIVE (B)
V.GND (B)
H.SUB (R)
H.SUB (G)
H.SUB (B)
V.SUB (R)
V.SUB (G)
V.SUB (B)
+35V
+15.5V
-15.5V
-35V
AD.HD
V.INV
FAN.PROT
V.STOP
V.PULSE
V.DY (R)
V.DY (G)
V.DY (B)
INV.SENS
DY-1
DY-2
CN251
CN252
CN253
CN254
CN255
CN256
CN261
CN262
CN263
CN264
CN265
CN266
CN272
CN273
CN274
CN275
CN276
CN278
G2
CRT GND
SUB DY (R)
DY (R)
SUB DY (G)
DY (G)
SUB DY (B)
DY (B)
H.CENT (B)
H.CENT (G)
H.CENT (R)
H.INV
HD (+12V)
H.STOP
H.SIZE
H.OSC
H.PIN
H.KEYS
E-1
E-4
E-5
E-6
E-8
E-9
E-10
E-13
INT.OSC
H.DY (R)
H.DY (G)
H.DY (B)
AUDIO (R)
AUDIO GND
AUDIO +15V
-15V
KA-501
KA-502
SPEAKER -
SPEAKER +
+210V
+100V
POWER.CONT
G2 (R)
G2 (G)
G2 (B)
FOCUS (R)
FOCUS (G)
FOCUS (B)
FOCUS IN
DF
DET
REG
PROT
R.HV
G.HV
B.HV
FBT-1
HV.OUT
HV.IN
A
B
C

2-2. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics.
- All electrolytics are in 50V unless otherwise specified.
- All resistors are in ohms, 1/4W in resistance, 1/10W in chip resistance.
  kΩ = 1000Ω, MΩ = 1000kΩ
- –[W]– : nonflammable resistor.
- –[W∿]– : fusible resistor.
- △ : internal component.
- ▭ : panel designation and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- # marked in these schematic diagrams signifies not mounted.

- The components identified by ⊠ in this basic schematic diagrams have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required replace only with the value originally used.
- When replacing components identified by ◪, make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by ⊠ and repeat the adjustment untill the specified value is achieved.

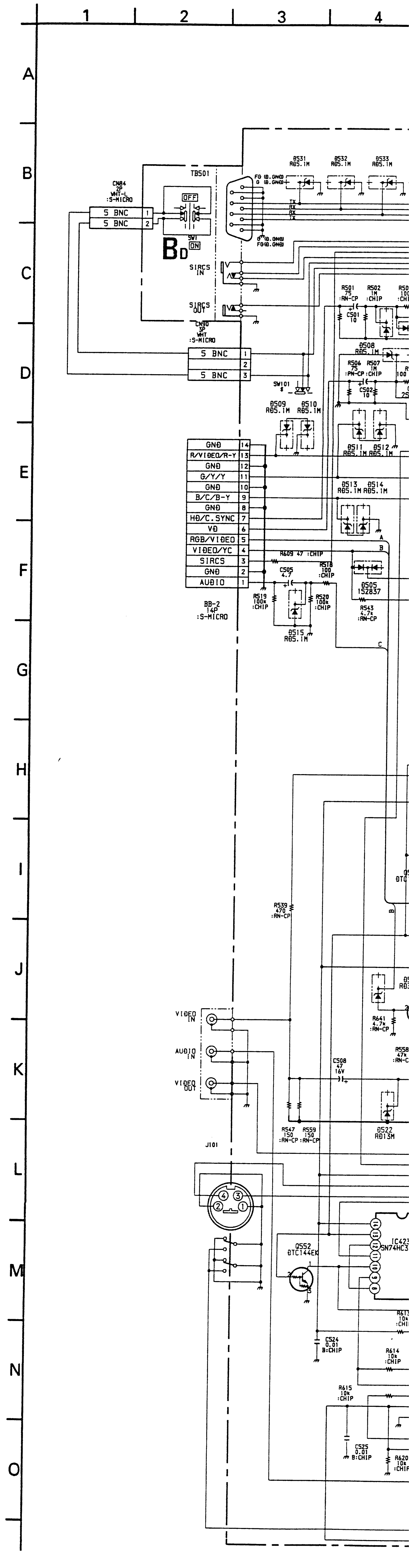
Part replaced (◪)	Adjustment (⊠)
IC2, Q7, D9, D12, C13, R20, R21, R22, R23, R24, R33, R34, R35, R36, R82 (PA BOARD) PA MOUNT HV BLOCK	HV HOLD DOWN (R33, R34)
IC1, IC7, IC8, IC9, IC10, IC11, IC12, IC13, R38, R39, R63, R64, R65, R66, R69, R72, R78, R80, R131, R132, X1 (PA BOARD) PA MOUNT, PB MOUNT HV BLOCK	HV REGULATION (R131, R132)
C2, IC3, IC5, Q1, Q2, Q7, Q8, D4, D5, D9, R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R20, R21, R22, R23, R24, R43, R44, R45, R46, R47, R82, R88, R121. R122, (PA BOARD), R143, R144 R733, (DA BOARD) PA MOUNT, PB MOUNT	BEAM CURRENT PROTECTOR (R1, R4)
IC1, IC3, IC5, Q8, D4, D5, D10, D11, R9, R10, R26, R28, R29, R30, R31, R88, R95, (PA BOARD) PA MOUNT	LOW B PROTECTOR (R29, R30)

Reference information

RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFRAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: RW	NONFLAMMABLE WIREWOUND
	: ※	ADJUSTMENT RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

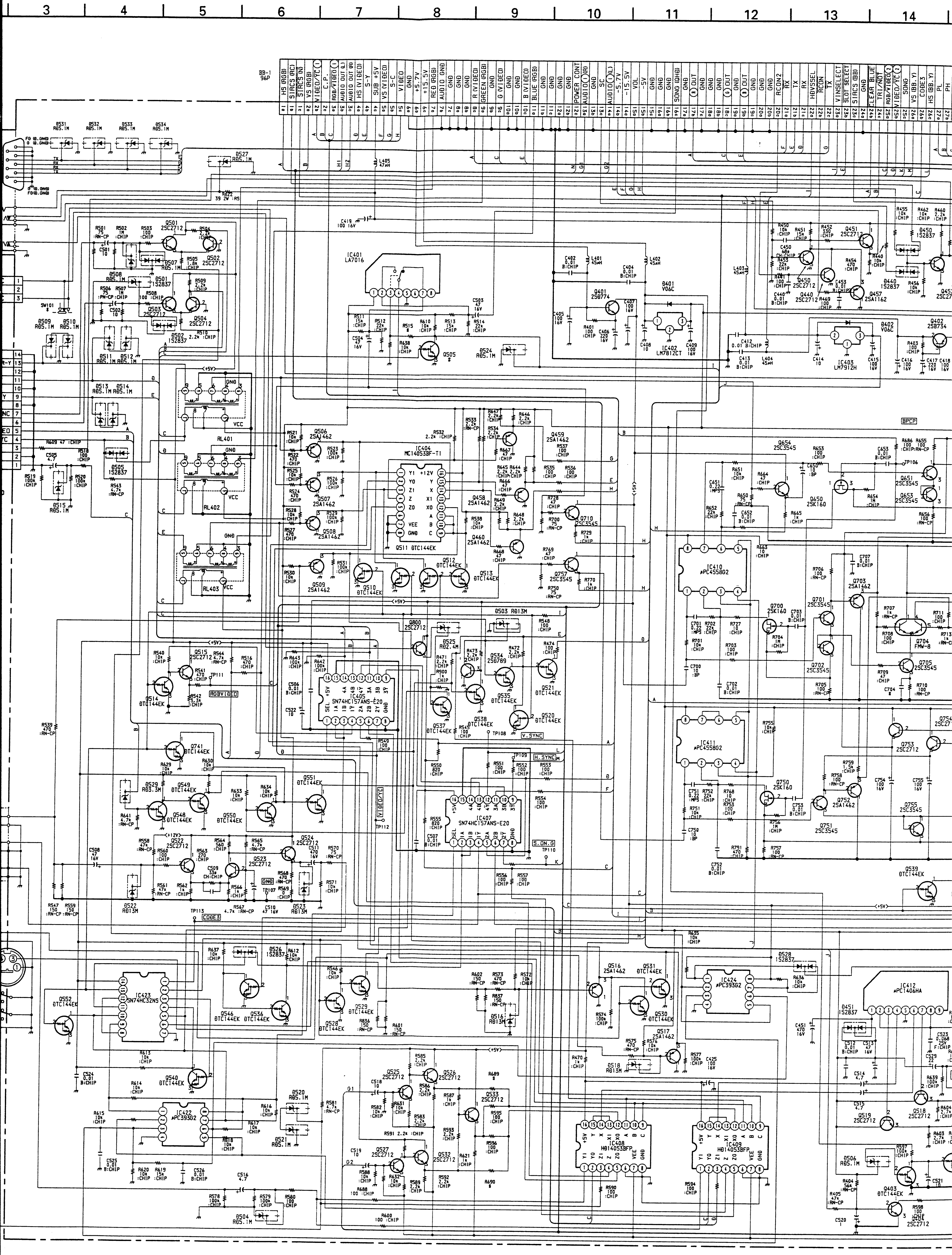
Note: The component identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

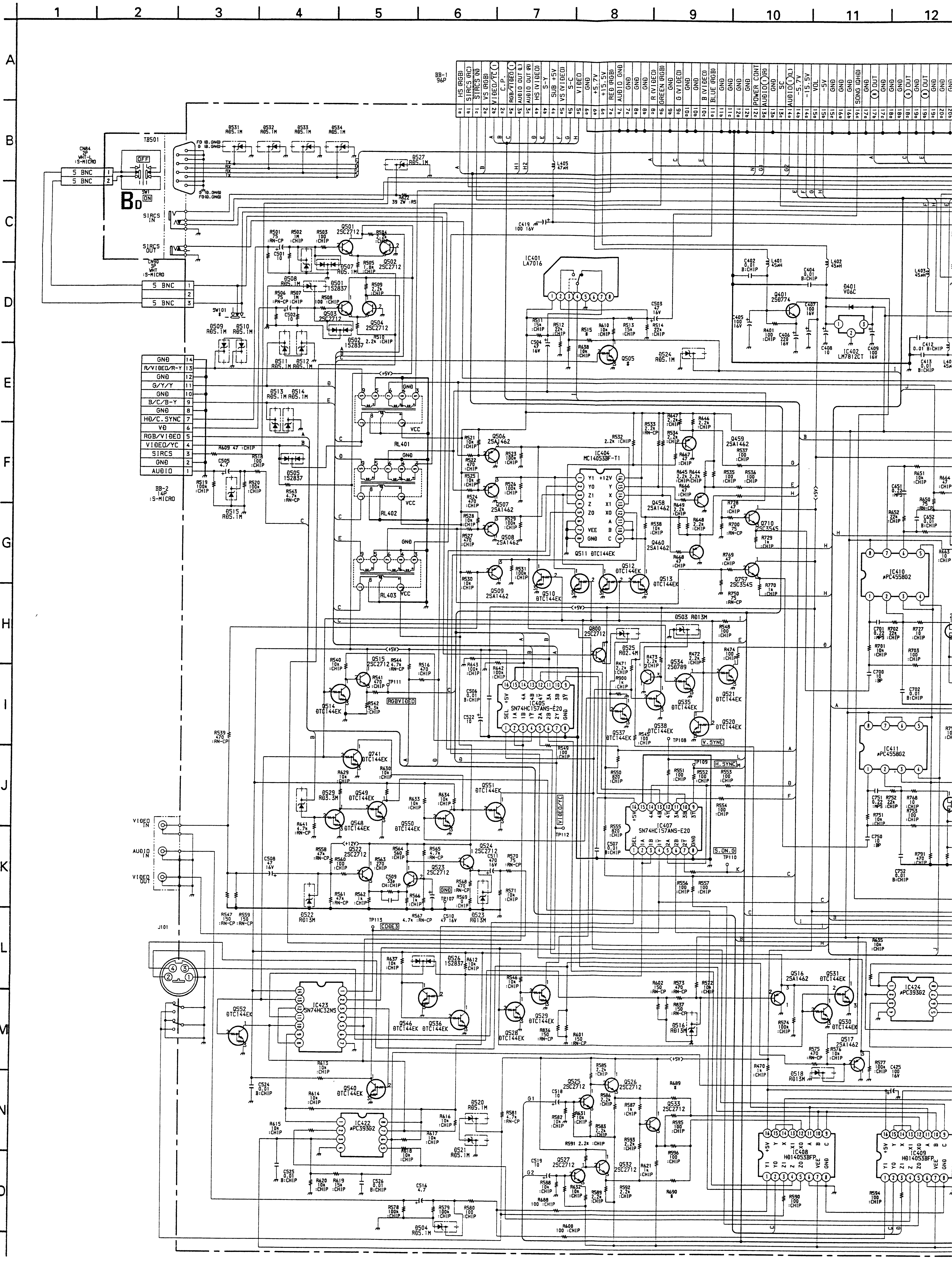
Note: Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

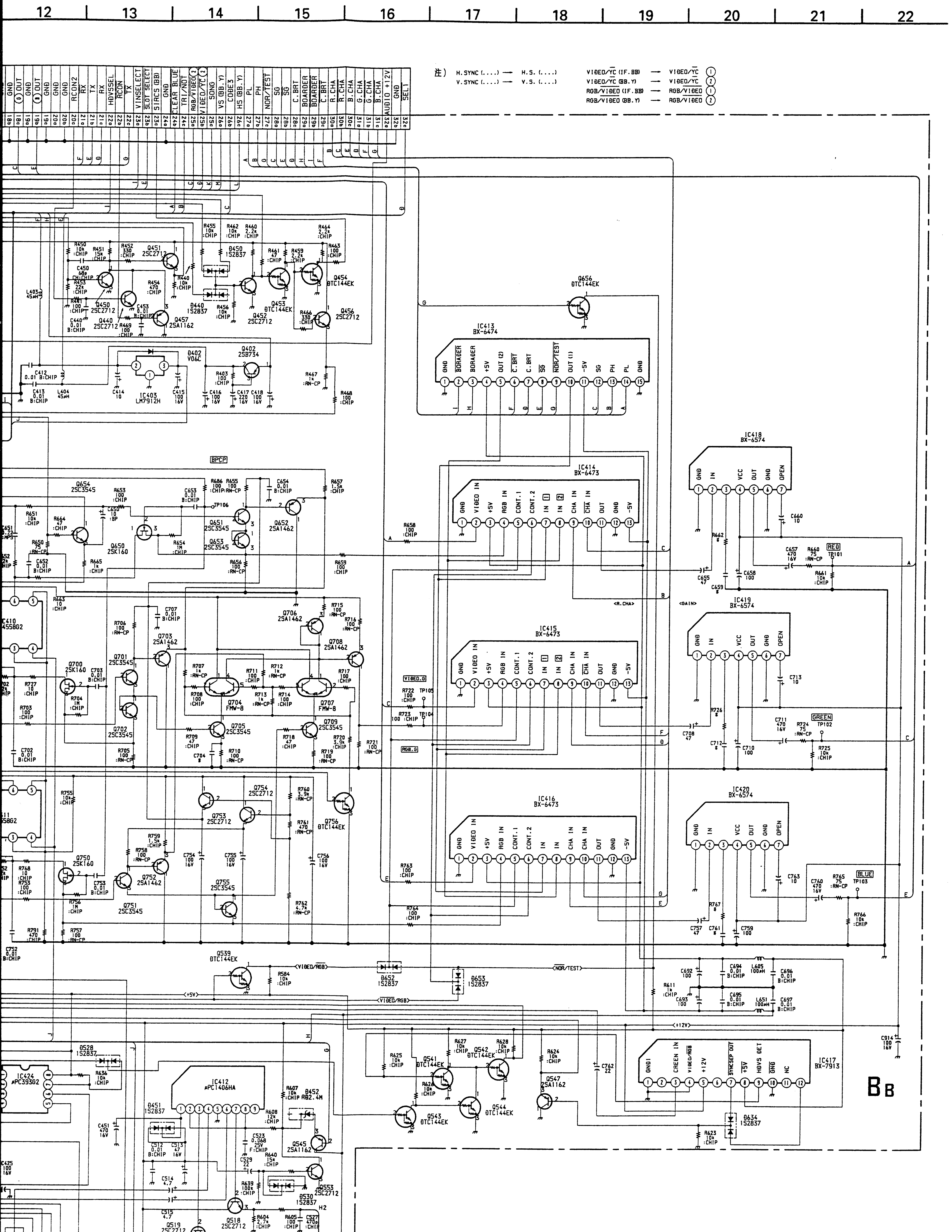

1
2
3
4
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
CN84 2P WHT-L :S-MICRO
S BNC
TB501
SW1
OFF
ON
BD
SIRCS IN
SIRCS OUT
CN90 3P WHT :S-MICRO
SW101
GND
R/VIDEO/R-Y
G/Y/Y
B/C/B-Y
HD/C.SYNC
VD
RGB/VIDEO
VIDEO/YC
SIRCS
AUDIO
BB-2 14P :S-MICRO
D531 RD5.1M
D532 RD5.1M
D533 RD5.1M
R501 75 :RN-CP
R502 1M :CHIP
C501 10
D508 RD5.1M
R506 75 :RN-CP
R507 1M :CHIP
C502 10
D509 RD5.1M
D510 RD5.1M
D511 RD5.1M
D512 RD5.1M
D513 RD5.1M
D514 RD5.1M
R609 47 :CHIP
C505 4.7
R518 100 :CHIP
D505 1S2837
R519 100k :CHIP
R520 100k :CHIP
R543 4.7k :RN-CP
D515 RD5.1M
R539 470 :RN-CP
VIDEO IN
AUDIO IN
VIDEO OUT
J101
R641 4.7k :RN-CP
C508 47 16V
R558 47k :RN-CP
R547 150 :RN-CP
R559 150 :RN-CP
D522 RD13M
Q552 DTC144EK
IC423 SN74HC3
C524 0.01 B:CHIP
R613 10k :CHIP
R614 10k :CHIP
R615 10k :CHIP
C525 0.01 B:CHIP
R620 10k :CHIP

Schematic diagram

BB board ➡


3
4
5
6
7
8
9
10
11
12
13
14
BB-1
96P
HS (RGB)
SIRCS (RC)
SIRCS (N)
VS (RGB)
VIDEO/Y/C (1)
C.P.
RGB/VIDEO (1)
AUDIO OUT (L)
AUDIO OUT (R)
S-Y
SUB +5V
VS (VIDEO)
S-C
VIDEO
GND
+5.7V
+15.5V
RED (RGB)
GND
GND
R (VIDEO)
GREEN (RGB)
G (VIDEO)
GND
B (VIDEO)
BLUE (RGB)
GND
POWER CONT
AUDIO (1)(R)
SC
AUDIO (1)(L)
-5.7V
-15.5V
VOL
-5V
SONG (HD)
OUT
RCON2
RX
TX
HDVSSEL
RCON
VINSELECT
SLOT SELECT
SIRCS (BB)
CLEAR BLUE
TRI/NOT
RGB/VIDEO/Y/C (2)
SONG
VS (BB.Y)
CODE3
HS (BB.Y)
PL
PH
IC401
LA7016
IC402
LM7812CT
IC403
LM7912H
IC404
MC14053BF-T1
IC405
SN74HC157ANS-E20
IC407
SN74HC157ANS-E20
IC408
HD14053BFP
IC409
HD14053BFP
IC410
μPC4558G2
IC411
μPC4558G2
IC412
μPC1406HA
IC422
μPC393G2
IC423
SN74HC32NS
IC424
μPC393G2
RL401
RL402
RL403
RGB(VIDEO)
V.SYNC
H.SYNC
S.ON.G
VIDEO/YC
CODE3
BPCP
SW101
TP106
TP108
TP109
TP110
TP111
TP112
TP113
<+5V>
VCC
GND


BB-1 96P
HS (RGB)
SIRCS (RC)
SIRCS (N)
VS (RGB)
VIDEO/YC
C.P.
RGB/VIDEO
AUDIO OUT
HS (VIDEO)
S-Y
SUB +5V
VS (VIDEO)
S-C
VIDEO
+5.7V
+15.5V
RED (RGB)
AUDIO
R (VIDEO)
GREEN (RGB)
G (VIDEO)
B (VIDEO)
BLUE (RGB)
POWER CONT
SC
-5.7V
-15.5V
VOL
-5V
SONG (QHD)
OUT
CN84 2P WHT-L :S-MICRO
5 BNC
TB501
OFF
ON
SW1
BD
SIRCS IN
SIRCS OUT
CN90 3P WHT :S-MICRO
SW101
GND
R/VIDEO/R-Y
G/Y/Y
B/C/B-Y
HD/C.SYNC
VD
RGB/VIDEO
VIDEO/YC
SIRCS
AUDIO
BB-2 14P :S-MICRO
IC401 LA7016
IC402 LM7812CT
IC404 MC14053BF-T1
IC405 SN74HC157ANS-E20
IC407 SN74HC157ANS-E20
IC410 μPC4558G2
IC411 μPC4558G2
IC422 μPC393G2
IC423 SN74HC32NS
IC424 μPC393G2
IC408 HD14053BFP
IC409 HD14053BFP
RL401
RL402
RL403
VCC
RGBVIDEO
VIDEO/YC
V.SYNC
H.SYNC
S.ON.G
CODE3
GND
TP107
TP108
TP109
TP110
TP111
TP112
TP113
VIDEO IN
AUDIO IN
VIDEO OUT
J101
(+5V)
(+12V)


12
13
14
15
16
17
18
19
20
21
22
GND
(G) OUT
(B) OUT
RCON2
RX
TX
HDVSSEL
RCON
V INSELECT
SLOT SELECT
SIRCS (BB)
CLEAR BLUE
TRI/NOT
RGB/VIDEO ②
VIDEO/YC ②
SONG
VS (BB.Y)
CODE3
HS (BB.Y)
PL
PH
NOR/TEST
SG
C.BRT
BOARDER
R.CHA
G.CHA
B.CHA
AUDIO +12V
SEL1
IC413
BX-6474
IC414
BX-6473
IC415
BX-6473
IC416
BX-6473
IC418
BX-6574
IC419
BX-6574
IC420
BX-6574
IC417
BX-7913
IC403
LM7912H
IC412
μPC1406HA
IC424
μPC39362
IC409
HD14053BFP
Q656
DTC144EK
Q451
2SC2712
Q450
1S2837
Q454
DTC144EK
Q453
DTC144EK
Q456
2SC2712
Q452
2SC2712
Q457
2SA1162
Q440
1S2837
D402
V06C
Q402
2SB734
BPCP
Q654
2SC3545
Q651
2SC3545
Q653
2SC3545
Q652
2SA1462
Q650
2SK160
Q706
2SA1462
Q708
2SA1462
Q703
2SA1462
Q701
2SC3545
Q700
2SK160
Q702
2SC3545
Q704
FMW-8
Q707
FMW-8
Q705
2SC3545
Q709
2SC3545
Q754
2SC2712
Q753
2SC2712
Q756
DTC144EK
Q750
2SK160
Q752
2SA1462
Q751
2SC3545
Q755
2SC3545
Q539
DTC144EK
D652
1S2837
D653
1S2837
D528
1S2837
D451
1S2837
Q541
DTC144EK
Q542
DTC144EK
Q543
DTC144EK
Q544
DTC144EK
Q547
2SA1162
Q545
2SA1162
Q553
2SC2712
D530
1S2837
Q518
2SC2712
Q519
2SC2712
D506
RD5.1M
Q403
DTC144EK
Q405
DTC144EK
D634
1S2837
RED
TP101
GREEN
TP102
BLUE
TP103
VIDEO.G
RGB.G
TP104
TP105
TP106
<R.CHA>
<GAIN>
<VIDEO/RGB>
<NOR/TEST>
<+5V>
<+12V>
VIDEO IN
+5V
RGB IN
CONT.1
CONT.2
CHA IN
OUT
-5V
VCC
OPEN
GND1
GREEN IN
SYNCSEP OUT
HDVS DET
NC
BB

注）H.SYNC (....) → H.S. (....)
V.SYNC (....) → V.S. (....)

VIDEO/$\overline{\text{YC}}$ (IF.BB) → VIDEO/$\overline{\text{YC}}$ ①
VIDEO/$\overline{\text{YC}}$ (BB.Y) → VIDEO/$\overline{\text{YC}}$ ②
RGB/$\overline{\text{VIDEO}}$ (IF.BB) → RGB/$\overline{\text{VIDEO}}$ ①
RGB/$\overline{\text{VIDEO}}$ (BB.Y) → RGB/$\overline{\text{VIDEO}}$ ②

– BB BOARD – <Component Side>

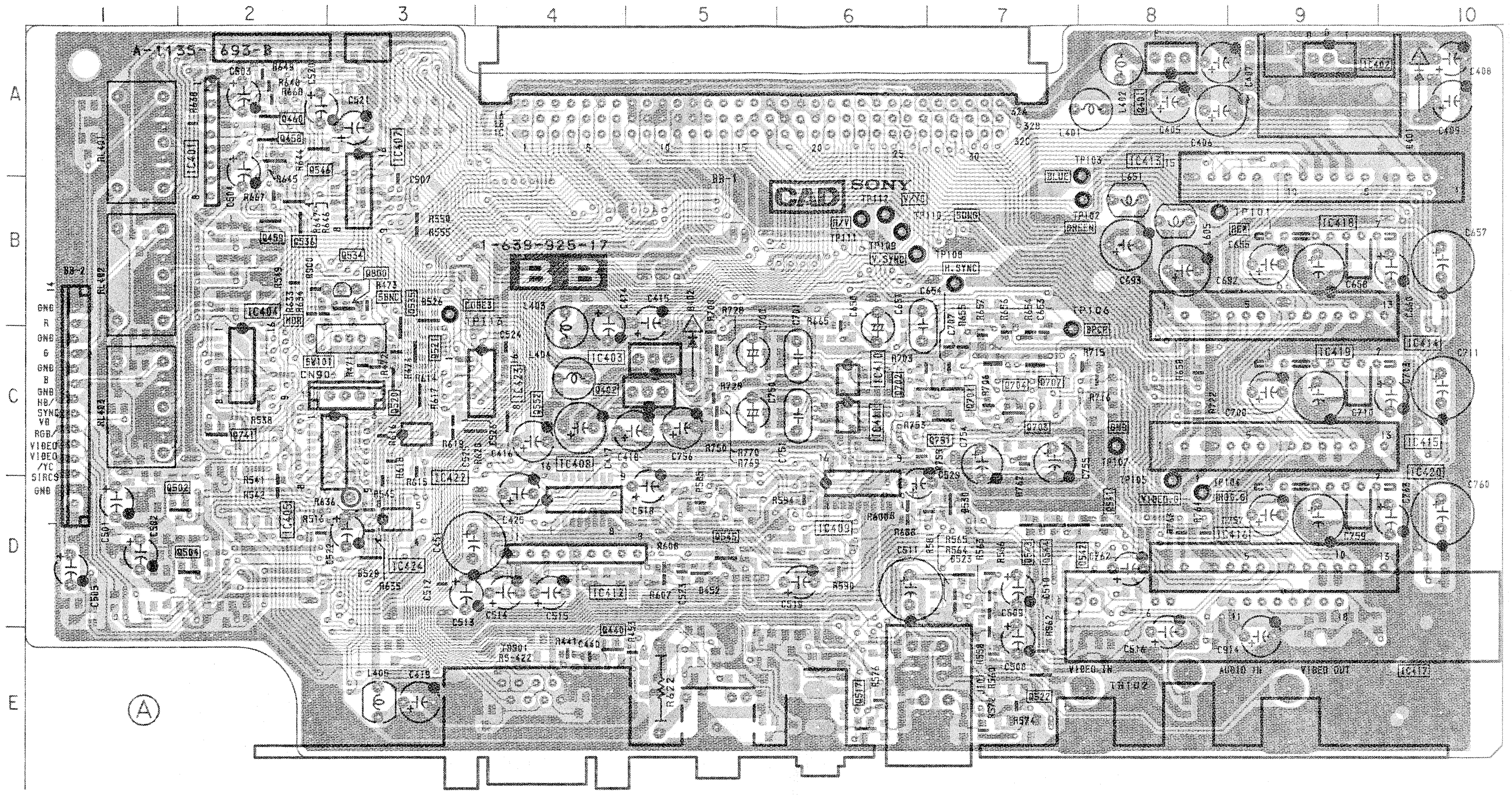
BB [SIGNAL SELECT, R.G.B. PRE AMP]

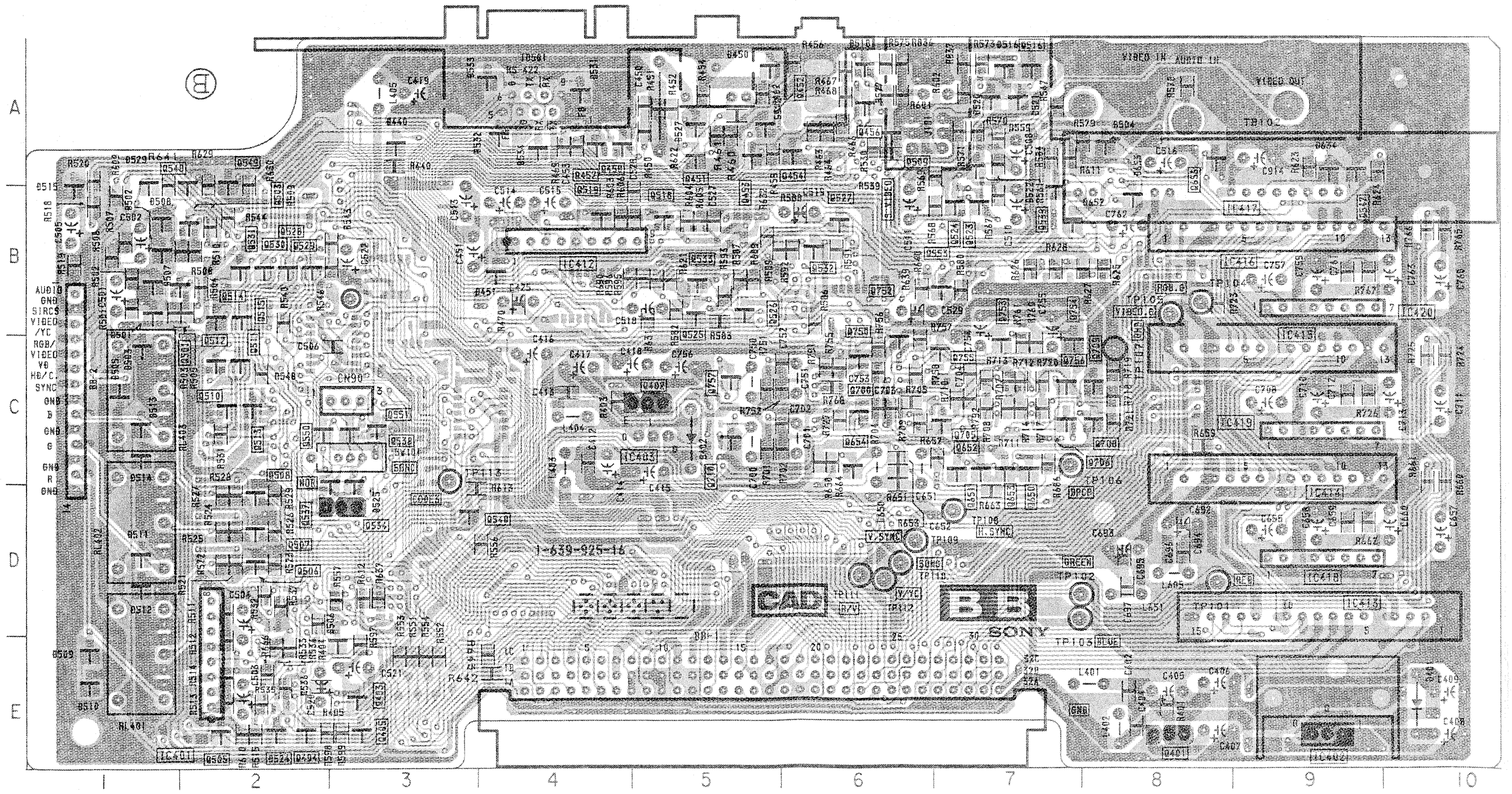
BB BOARD (COMPONENT SIDE)

IC	
IC401	A-2
IC402	A-9
IC403	C-5
IC404	C-2
IC405	D-2
IC407	B-3
IC408	D-4
IC409	D-6
IC410	C-6
IC411	C-6
IC412	D-4
IC413	B-9
IC414	B-9
IC415	C-9
IC416	D-9
IC417	E-9
IC418	B-9
IC419	C-9
IC420	D-9
IC422	C-3
IC423	C-4
IC424	D-3

TRANSISTOR	
Q401	A-8
Q402	C-4
Q440	E-4
Q458	A-2
Q459	B-2
Q460	A-2
Q502	D-2
Q504	D-2
Q517	E-6
Q520	C-3
Q521	C-3
Q522	E-7
Q534	B-3
Q535	B-3
Q536	B-2
Q541	D-8
Q542	D-8
Q543	D-7
Q544	D-7
Q545	D-5
Q546	A-2
Q552	C-4
Q701	C-7
Q702	C-7
Q703	C-7
Q704	C-7
Q707	C-7
Q741	C-2
Q751	C-7
Q800	B-3

DIODE	
D401	A-10
D402	C-5
D452	D-5
D523	D-7
D526	B-3
D528	D-3
D530	D-7





BB BOARD (CONDUCTOR SIDE)

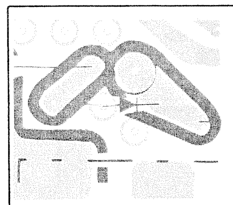
IC	
IC401	E-2
IC402	E-9
IC403	C-5
IC412	B-4
IC413	D-9
IC414	D-9
IC415	C-9
IC416	B-9
IC417	B-9
IC418	D-9
IC419	C-9
IC420	B-9

TRANSISTOR	
Q401	E-8
Q402	C-5
Q403	E-3
Q404	E-2
Q405	E-3
Q450	A-4
Q451	A-5
Q452	A-5
Q453	A-5
Q454	A-6
Q456	A-6
Q457	A-4
Q501	B-2
Q503	B-2
Q506	D-2
Q507	D-2
Q508	D-2
Q509	A-6
Q510	C-2
Q511	C-2
Q512	C-2
Q513	C-3
Q514	B-2
Q515	B-2
Q516	A-7
Q518	B-5
Q519	B-4
Q523	B-7
Q524	B-7
Q525	B-5
Q526	B-5
Q527	B-6
Q528	B-2
Q529	B-2
Q530	B-2
Q531	B-2
Q532	B-6
Q533	B-5
Q534	D-3
Q537	D-3
Q538	C-3
Q539	B-7
Q540	D-3
Q547	B-9
Q548	A-2
Q549	A-2
Q550	C-2
Q551	C-3
Q553	B-7
Q650	C-7
Q651	C-7
Q652	C-7
Q653	C-7
Q654	C-6
Q656	A-8
Q700	C-6
Q705	C-7
Q706	C-7
Q708	C-8
Q709	C-8
Q710	C-5
Q750	C-6
Q752	C-6
Q753	C-7
Q754	C-7
Q755	C-7
Q756	C-7
Q757	C-5

DIODE	
D401	E-10
D402	C-5
D440	A-3
D450	A-5
D451	B-4
D501	B-1
D502	B-1
D503	C-1
D504	A-8
D505	C-1
D506	E-3
D507	B-1
D508	B-1
D509	E-1
D510	E-1
D511	D-1
D512	D-1
D513	C-1
D514	C-1
D515	B-1
D516	A-7
D518	A-6
D520	A-7
D521	A-7
D522	A-7
D524	E-2
D525	D-3
D527	A-5
D529	A-1
D531	A-4
D532	A-4
D533	A-4
D534	A-4
D634	A-9
D652	B-7
D653	B-8

- ▨ : Pattern from the side which enables seeing.
- ▨ : Pattern of the rear side.

E [H OUT]



NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

E BOARD

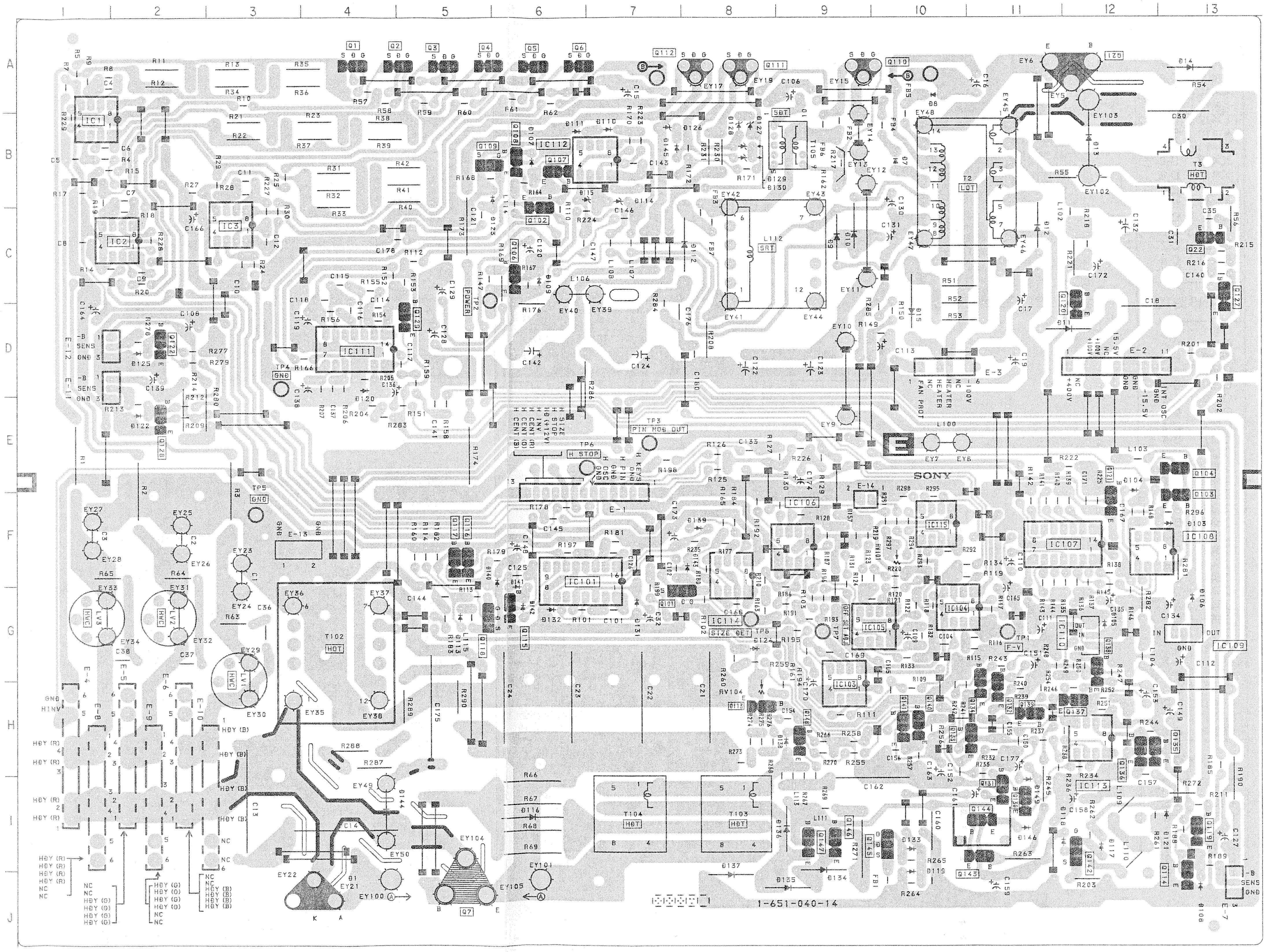
IC	
IC1	B-1
IC2	C-2
IC3	C-3
IC101	F-6
IC103	H-9
IC104	G-10
IC105	G-10
IC106	F-9
IC107	F-12
IC108	F-13
IC109	G-13
IC110	G-12
IC111	D-4
IC112	B-6
IC113	H-12
IC114	F-8

TRANSISTOR	
Q1	A-4
Q2	A-5
Q3	A-5
Q4	A-5
Q5	A-6
Q6	A-6
Q7	J-5
Q21	A-12
Q22	C-13
Q101	G-7
Q102	C-6
Q103	F-13
Q104	E-13
Q106	C-6
Q107	B-6
Q108	B-6
Q109	B-6
Q110	A-10
Q111	A-8
Q112	A-8
Q113	H-8
Q115	G-6
Q116	F-5
Q117	F-5
Q118	G-5
Q120	D-12
Q121	F-12
Q127	D-13
Q128	E-2
Q129	D-5
Q130	I-11
Q131	I-11
Q132	H-11
Q133	H-11
Q134	H-11
Q135	H-12
Q136	H-12
Q137	H-12
Q138	G-12
Q139	H-11
Q140	H-10
Q141	H-10
Q142	I-12
Q143	I-11
Q144	I-11
Q145	I-10
Q146	I-9
Q147	I-9
Q148	H-9

DIODE	
D1	J-4
D7	B-10
D8	A-10
D9	C-9
D10	C-9
D11	D-12
D12	C-11
D13	B-12
D14	A-13
D15	D-10
D103	F-13
D104	F-12
D105	G-12
D106	G-13
D107	B-6
D109	C-6
D110	B-7
D111	B-6
D112	C-8
D113	G-5
D114	B-7
D115	B-7
D116	I-6
D117	I-12
D118	I-12
D119	J-10
D120	D-4
D121	I-13
D122	E-2
D123	B-6
D124	G-8
D126	B-7
D127	B-8
D128	B-8
D129	B-8
D130	B-8
D131	G-7
D132	G-6
D133	I-10
D134	I-9
D135	J-9
D136	I-9
D137	J-8
D138	H-9
D139	F-8
D140	F-6
D141	G-6
D142	G-6
D143	F-8
D144	I-4
D145	B-7
D146	I-11
D149	I-11

VARIABLE RESISTOR	
RV101	F-10
RV104	H-8

- E BOARD -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A
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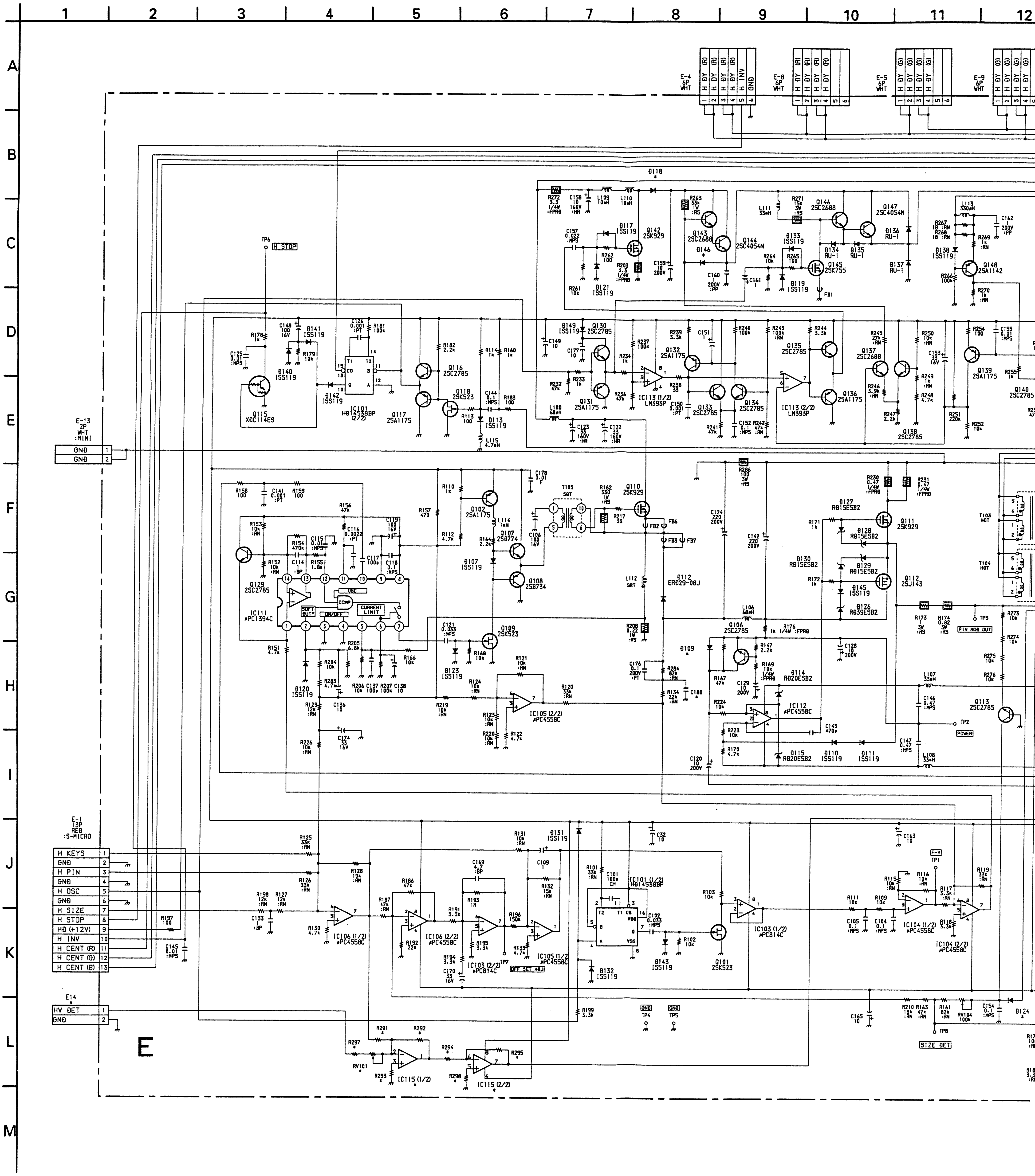
C
D
E
F
G
H
I
J
IC1
IC2
IC3
IC101
IC103
IC104
IC106
IC107
IC108
IC109
IC110
IC111
IC112
IC113
IC114
IC115
Q1
Q2
Q3
Q4
Q5
Q6
Q7
Q111
Q112
Q110
S D G
T102 HOT
T103 HOT
T104 HOT
T2 LOT
T3 HDT
L112 SRT
TP4 GND
TP5 GND
TP3 PIN MOD OUT
TP6 H STOP
TP2 POWER
SIZE DET
GND
INT OSC
-15.5V
NC
+400V
HEATER
FAN PROT
-100V
E-1
E-2
E-3
E-4
E-5
E-6
E-7
E-8
E-9
E-10
E-11
E-12
E-13
E-14
-B SENS GND
SONY
E
IN
OUT
GND
EY100
EY101
EY104
EY105
1-651-040-14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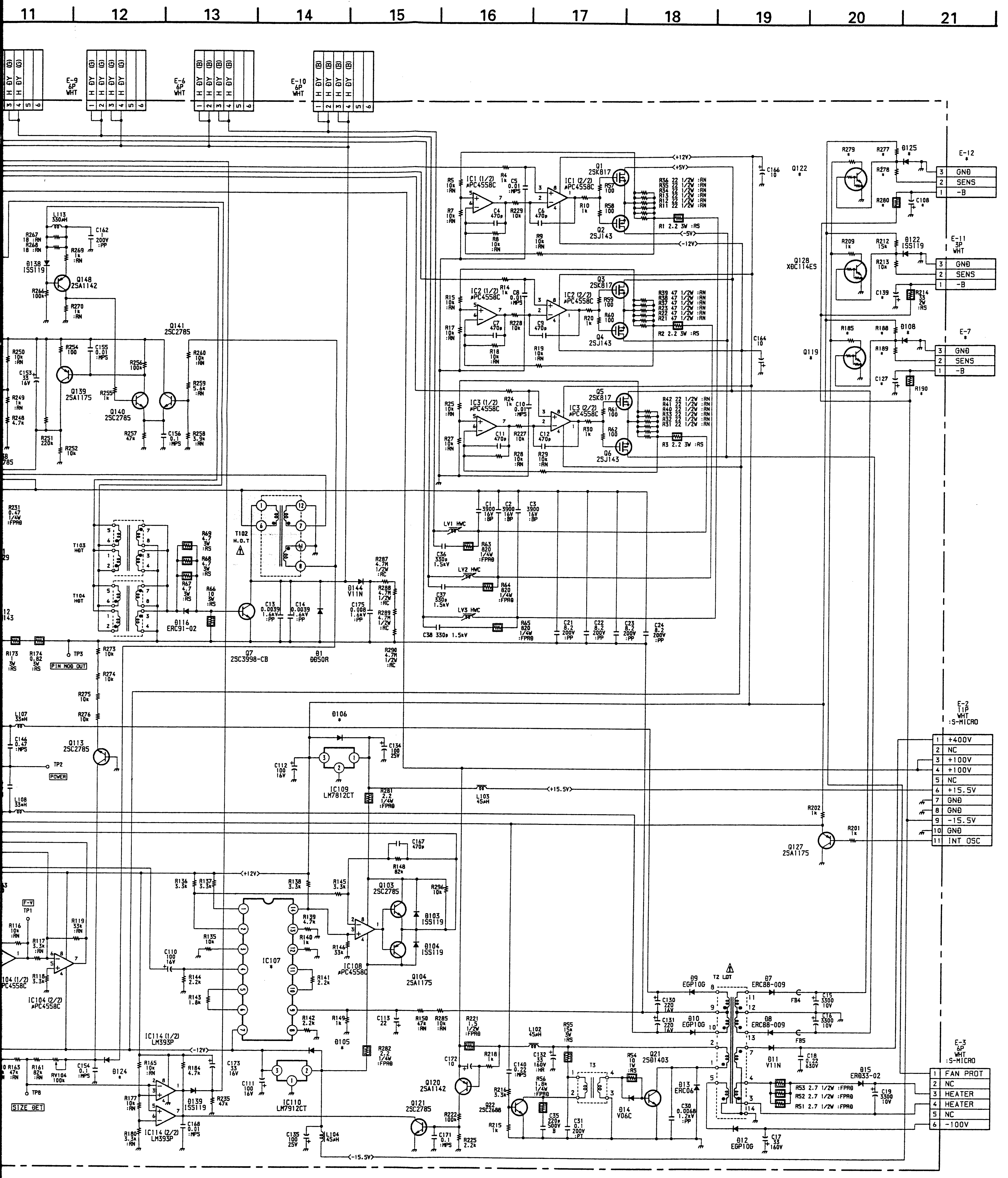
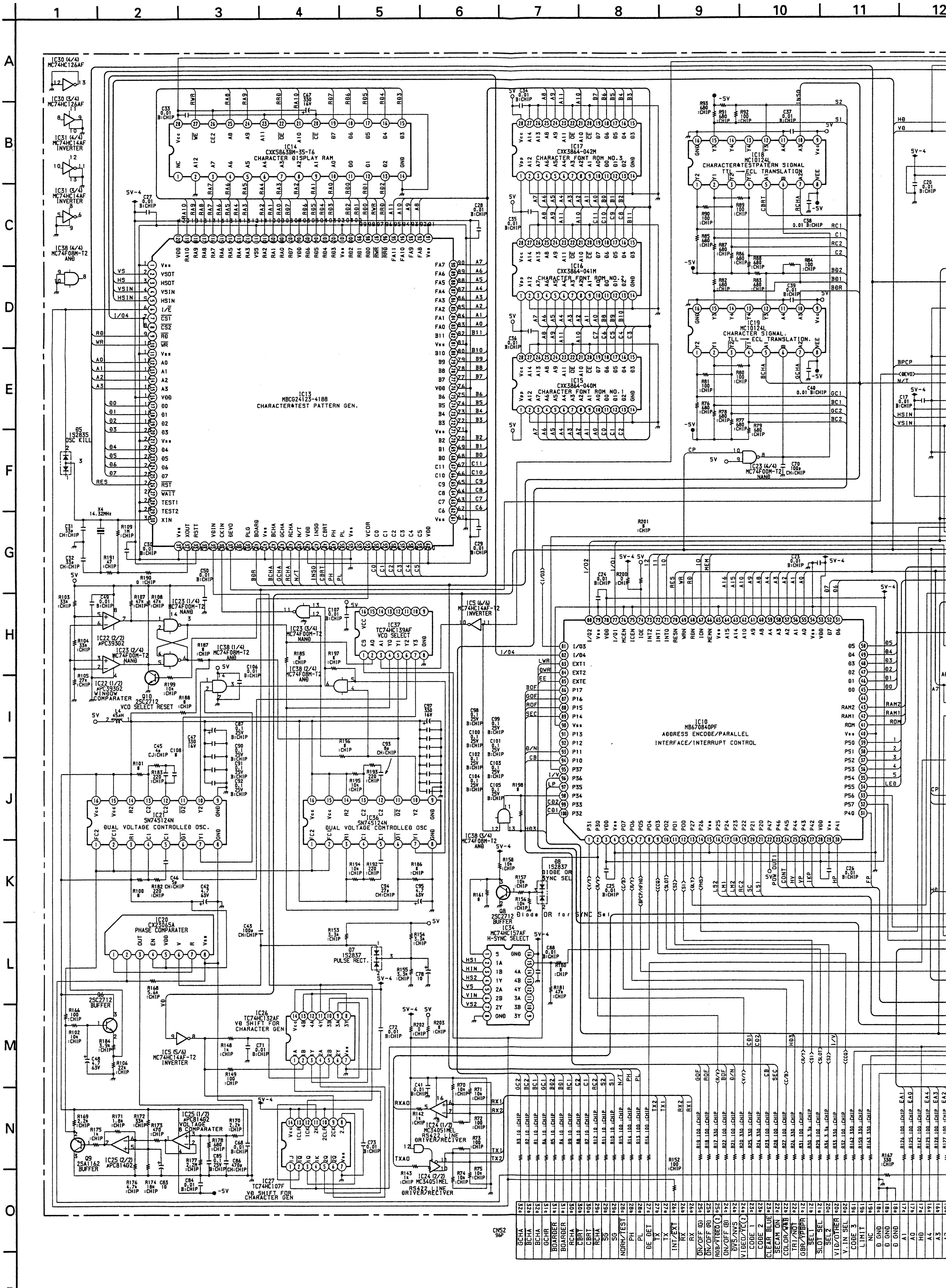
12
A
B
C
D
E
F
G
H
I
J
K
L
M
E-4 6P WHT
H DY (R)
H DY (R)
H DY (R)
H DY (R)
H INV
GND
E-8 6P WHT
E-5 6P WHT
E-9 6P WHT
E-13 2P WHT :MINI
GND
GND
E-1 13P RED :S-MICRO
H KEYS
GND
H PIN
GND
H OSC
GND
H SIZE
H STOP
HD (+12V)
H INV
H CENT (R)
H CENT (G)
H CENT (B)
E14
HV DET
GND
E
TP6
H STOP
Q115 XBC114ES
IC101 HD14538BP (2/2)
Q116 2SC2785
Q117 2SA1175
Q118 2SK523
Q118
Q142 2SK929
Q143 2SC2688
Q144 2SC4054N
Q146 2SC2688
Q147 2SC4054N
Q145 2SK755
Q148 2SA1142
Q130 2SC2785
Q131 2SA1175
Q132 2SA1175
Q133 2SC2785
Q134 2SC2785
Q135 2SC2785
Q136 2SA1175
Q137 2SC2688
Q138 2SC2785
Q139 2SA1175
Q140 2SC2785
IC113 (1/2) LM393P
IC113 (2/2) LM393P
Q129 2SC2785
IC111 μPC1394C
SOFT DUTY
ON/OFF
CURRENT LIMIT
OSC
COMP
Q102 2SA1175
Q107 2SD774
Q108 2SB734
Q109 2SK523
T105 SBT
Q110 2SK929
L112 SRT
D112 ERD29-08J
Q111 2SK929
Q112 2SJ143
Q106 2SC2785
IC112 μPC4558C
Q113 2SC2785
T103 HOT
T104 HOT
TP3
PIN MOD OUT
TP2
POWER
IC105 (2/2) μPC4558C
IC106 (1/2) μPC4558C
IC106 (2/2) μPC4558C
IC103 (2/2) μPC814C
IC105 (1/2) μPC4558C
TP7
OFF SET ADJ
IC101 (1/2) HD14538BP
Q101 2SK523
IC103 (1/2) μPC814C
TP1
F-V
IC104 (1/2) μPC4558C
IC104 (2/2) μPC4558C
TP4
TP5
TP8
SIZE DET
IC115 (1/2)
IC115 (2/2)
RV101
RV104 100k


11
12
13
14
15
16
17
18
19
20
21
E-9 6P WHT
E-6 6P WHT
E-10 6P WHT
H DY
E-12
GND
SENS
-B
E-11 3P WHT
E-7
E-2 11P WHT :S-MICRO
+400V
NC
+100V
+100V
NC
+15.5V
GND
GND
-15.5V
GND
INT OSC
E-3 6P WHT :S-MICRO
FAN PROT
NC
HEATER
HEATER
NC
-100V
IC1 (1/2) μPC4558C
IC1 (2/2) μPC4558C
IC2 (1/2) μPC4558C
IC2 (2/2) μPC4558C
IC3 (1/2) μPC4558C
IC3 (2/2) μPC4558C
Q1 2SK817
Q2 2SJ143
Q3 2SK817
Q4 2SJ143
Q5 2SK817
Q6 2SJ143
Q122
Q128 XBC114ES
Q119
Q148 2SA1142
Q141 2SC2785
Q139 2SA1175
Q140 2SC2785
T103 HOT
T104 HOT
T102 H.O.T
Q7 2SC3998-CB
D1 D850R
D116 ERC91-02
D144 V11N
LV1 HWC
LV2 HWC
LV3 HWC
PIN MOD OUT
TP3
TP2
POWER
Q113 2SC2785
IC109 LM7812CT
L103 45μH
(+15.5V)
(+12V)
(+5V)
(-5V)
(-12V)
Q127 2SA1175
IC107
IC108 μPC4558C
Q103 2SC2785
Q104 2SA1175
D103 1SS119
D104 1SS119
F-V
TP1
IC104 (1/2) μPC4558C
IC104 (2/2) μPC4558C
IC114 (1/2) LM393P
IC114 (2/2) LM393P
IC110 LM7912CT
(-15.5V)
TP8
SIZE DET
Q120 2SA1142
Q121 2SC2785
Q22 2SC2688
T3
Q21 2SD1403
D14 V06C
D13 ERC06
T2 LOT
D9 EGP10G
D10 EGP10G
D7 ERC88-009
D8 ERC88-009
D11 V11N
D15 ERB33-02
D12 EGP10G

C139	1000 25V
C180	0.1 :MPS
D105	ERA22 -06TP5
D106	ERA22 -06TP5
D109	ERA22 -06TP5
D118	ERA22 -06TP5
D124	ERA22 -06TP5
D146	ERA22 -06TP5
E14	2P WHT :S-MICRO
IC107	MC1495BP
IC115	μPC4558C
R291	2.2k :RN
R292	2.2k :RN
R293	1k
R294	2.2k :RN
R295	2.2k :RN
R297	22k :RN
R298	1k
RV101	100k

Schematic diagram
← E **board**

Schematic diagram
Y **board** →


IC30 (4/4) MC74HC126AF
IC30 (3/4) MC74HC126AF
IC31 (4/4) MC74HC14AF INVERTER
IC31 (3/4) MC74HC14AF INVERTER
IC38 (4/4) MC74F08M-T2 AND
IC14 CXK5863BM-35-T6 CHARACTER DISPLAY RAM
IC13 MBCG24123-4188 CHARACTER&TEST PATTERN GEN.
IC17 CXK3864-042M CHARACTER FONT ROM NO.3
IC16 CXK3864-041M CHARACTER FONT ROM NO.2
IC15 CXK3864-040M CHARACTER FONT ROM NO.1
IC18 MC10124L CHARACTER&TESTPATERN SIGNAL TTL — ECL TRANSLATION
IC19 MC10124L CHARACTER SIGNAL. TTL — ECL TRANSLATION.
IC23 (4/4) MC74F00M-T2 NAND
D5 1S2835 OSC KILL
X4 14.32MHz
IC22 (2/2) μPC393G2
IC22 (1/2) μPC393G2 WINDOW COMPARATER
IC23 (1/4) MC74F00M-T2 NAND
IC23 (2/4) MC74F00M-T2 NAND
IC38 (1/4) MC74F08M-T2 AND
Q10 2SC2712 VCO SELECT RESET
IC23 (3/4) MC74HC00M-T2 NAND
IC38 (2/4) MC74F08M-T2 AND
IC37 TC74HC139AF VCO SELECT
IC5 (6/6) MC74HC14AF-T2 INVERTER
IC21 SN74S124N DUAL VOLTAGE CONTROLLED OSC.
IC36 SN74S124N DUAL VOLTAGE CONTROLLED OSC
IC20 CX23065A PHASE COMPARATER
D7 1S2837 PULSE RECT.
IC38 (3/4) MC74F08M-T2 AND
D8 1S2837 DIODE OR SYNC SEL
Q8 2SC2712 BUFFER
IC34 MC74HC157AF H-SYNC SELECT
IC10 MB670840PF ADDRESS ENCODE/PARALLEL INTERFACE/INTERRUPT CONTROL
Q6 2SC2712 BUFFER
IC26 TC74HC132AF VD SHIFT FOR CHARACTER GEN
IC5 (5/6) MC74HC14AF-T2 INVERTER
IC25 (1/2) μPC814G2 VOLTAGE COMPARATER
IC25 (2/2) μPC814G2
Q9 2SA1162 BUFFER
IC27 TC74HC107F VD SHIFT FOR CHARACTER GEN
IC24 (1/2) MC34051MEL RS422 LINE DRIVER/RECIVER
IC24 (2/2) MC34051MEL RS422 LINE DRIVER/RECIVER
CN52 96P
GCHA
BCHA
BCHR
BOARDER
RCHA
CBRT
SG
NORM/TEST
PH
PL
DE DET
TX
INT/EXT
RX
ON/OFF (G)
ON/OFF (R)
RGB/VIDEO (Z)
ON/OFF (B)
BYS/NVS
VIDEO/YC (Z)
CODE 1
CODE 2
CLEAR BLUE
SECAM ON
COLOR/W&B
TRI/NOT
GBR/YPBPR
SEL1
SLOT SEL
SEL 2
VID/OTHER
V.IN SEL
CODE 3
LIMIT
NC
D GND
A1
H0
A3
1
2
3
4
5
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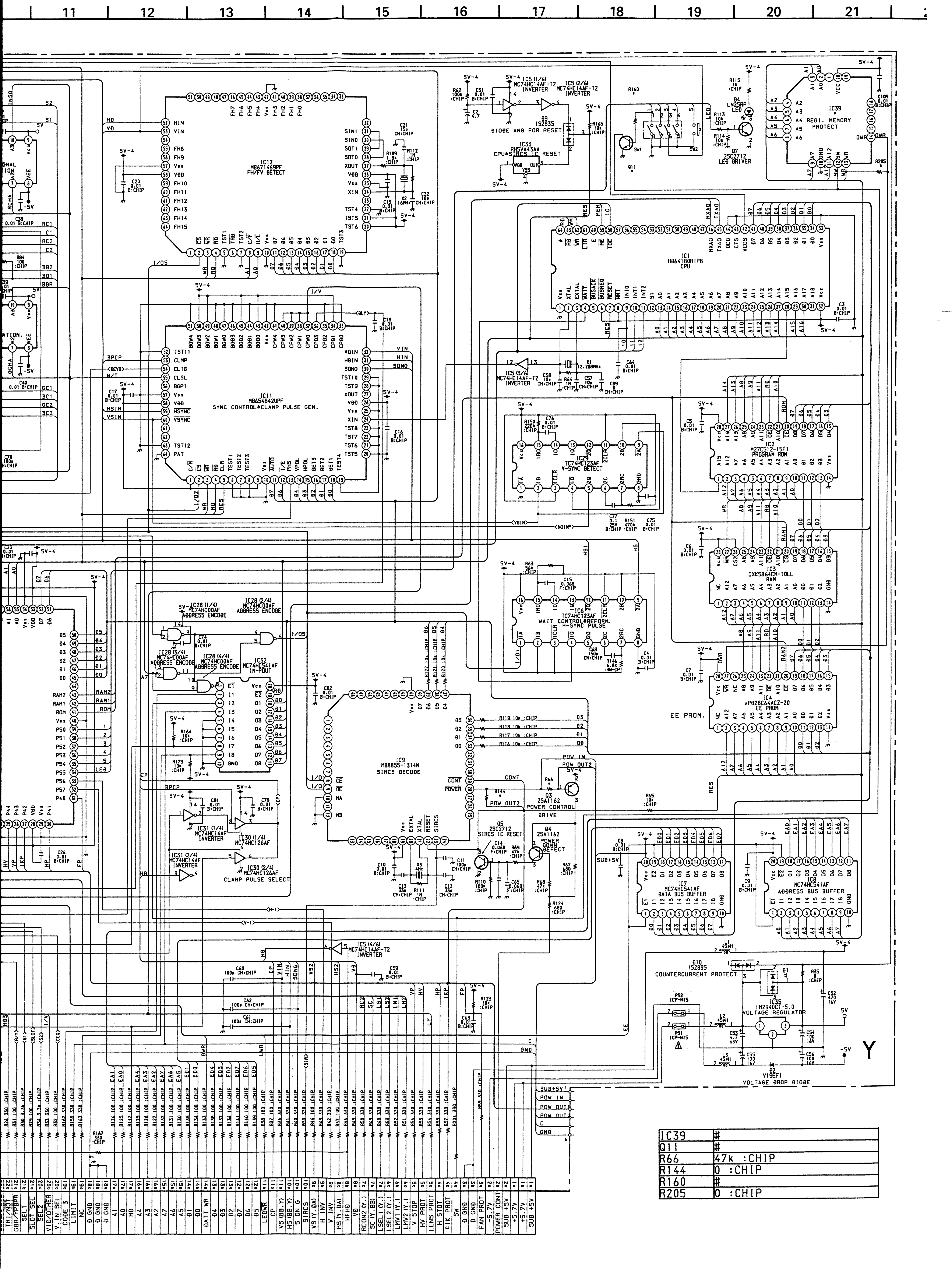


IC12 MB671469PF FH/FV DETECT
IC11 MB654842UPF SYNC CONTROL&CLAMP PULSE GEN.
IC1 HD64180R1P8 CPU
IC39 REGI. MEMORY PROTECT
IC5 (1/6) MC74HC14AF-T2 INVERTER
IC5 (2/6) MC74HC14AF-T2 INVERTER
IC5 (3/6) MC74HC14AF-T2 INVERTER
IC5 (4/6) MC74HC14AF-T2 INVERTER
D9 1S2835 DIODE AND FOR RESET
IC33 RH5VA43AA CPU&SIRCS IC RESET
Q7 2SC2712 LED DRIVER
D4 LN25RP LED
X1 12.288MHz
IC2 M27C512-15F1 PROGRAM ROM
IC29 TC74HC123AF V-SYNC DETECT
IC3 CXK5864CM-10LL RAM
IC6 TC74HC123AF WAIT CONTROL&REFORM. H-SYNC PULSE
IC4 μPD28C64ACZ-20 EE PROM
EE PROM.
IC28 (1/4) MC74HC00AF ADDRESS ENCODE
IC28 (2/4) MC74HC00AF ADDRESS ENCODE
IC28 (3/4) MC74HC00AF ADDRESS ENCODE
IC28 (4/4) MC74HC00AF ADDRESS ENCODE
IC32 MC74HC541AF IN-POUT
IC9 MB8855-1314N SIRCS DECODE
Q3 2SA1162 POWER CONTROL DRIVE
Q5 2SC2712 SIRCS IC RESET
Q4 2SA1162 POWER DOWN DEFECT
IC31 (1/4) MC74HC14AF INVERTER
IC31 (2/4) MC74HC14AF INVERTER
IC30 (1/4) MC74HC126AF
IC30 (2/4) MC74HC126AF CLAMP PULSE SELECT
IC7 MC74HC541AF DATA BUS BUFFER
IC8 MC74HC541AF ADDRESS BUS BUFFER
D10 1S2835 COUNTERCURRENT PROTECT
IC35 LM2940CT-5.0 VOLTAGE REGULATOR
D2 V19EF1 VOLTAGE DROP DIODE
PS2 ICP-N15
PS1 ICP-N15
Y

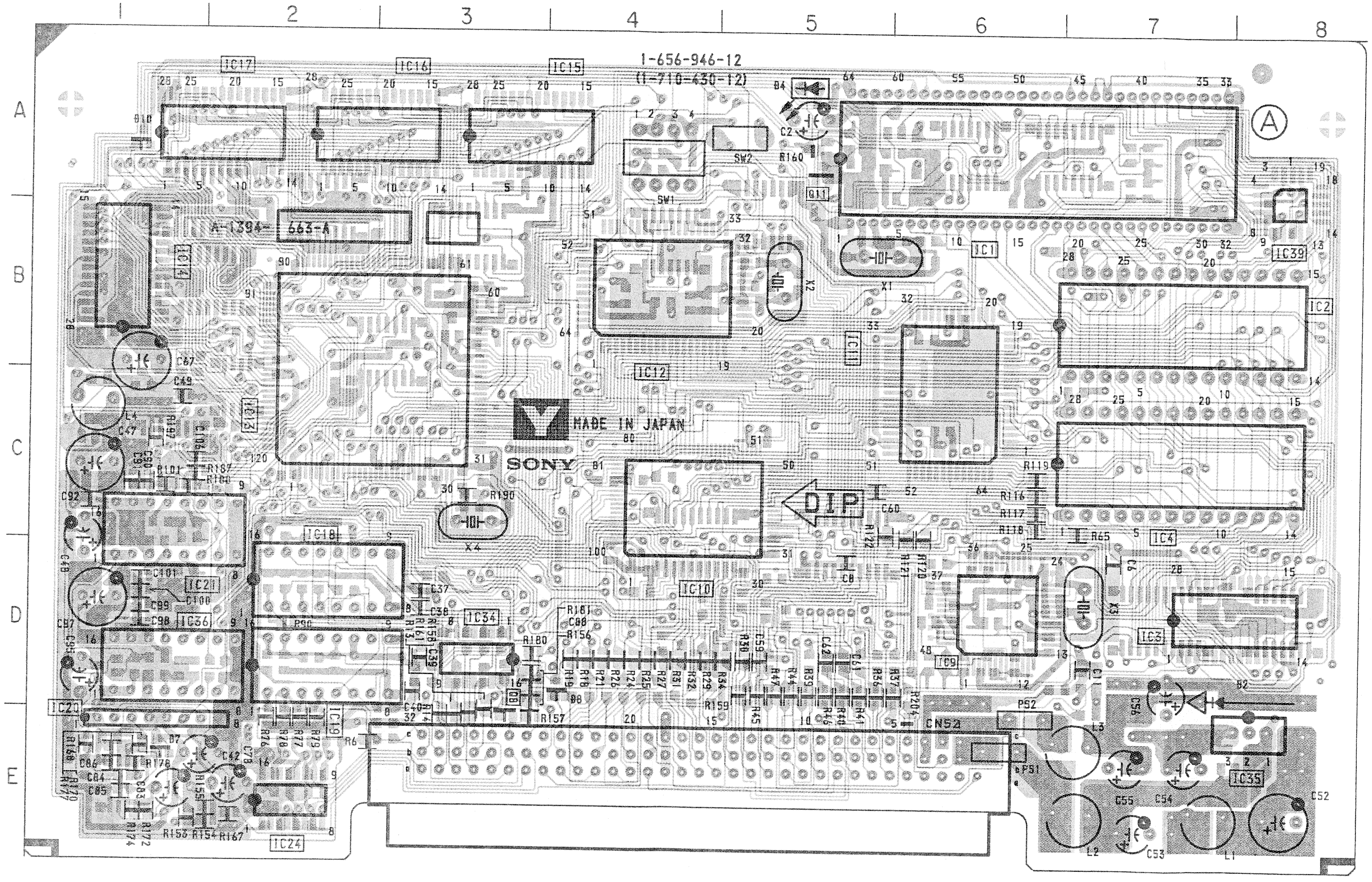
IC39	#
Q11	#
R66	47k :CHIP
R144	0 :CHIP
R160	#
R205	0 :CHIP

Y [CPU MEMORY]

Y BOARD (COMPONENT SIDE)

IC	
IC1	A-6
IC2	B-7
IC3	D-8
IC4	C-8
IC9	D-6
IC10	C-4
IC11	C-6
IC12	B-4
IC13	C-2
IC14	B-1
IC15	A-3
IC16	A-2
IC17	A-2
IC18	D-2
IC19	D-2
IC20	E-1
IC21	D-1
IC24	E-2
IC34	D-3
IC35	E-8
IC36	D-1
TRANSISTOR	
Q8	D-3
DIODE	
D2	D-8
D4	A-5
D7	E-1
D8	D-4

– Y BOARD – <Component Side>


1
2
3
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6
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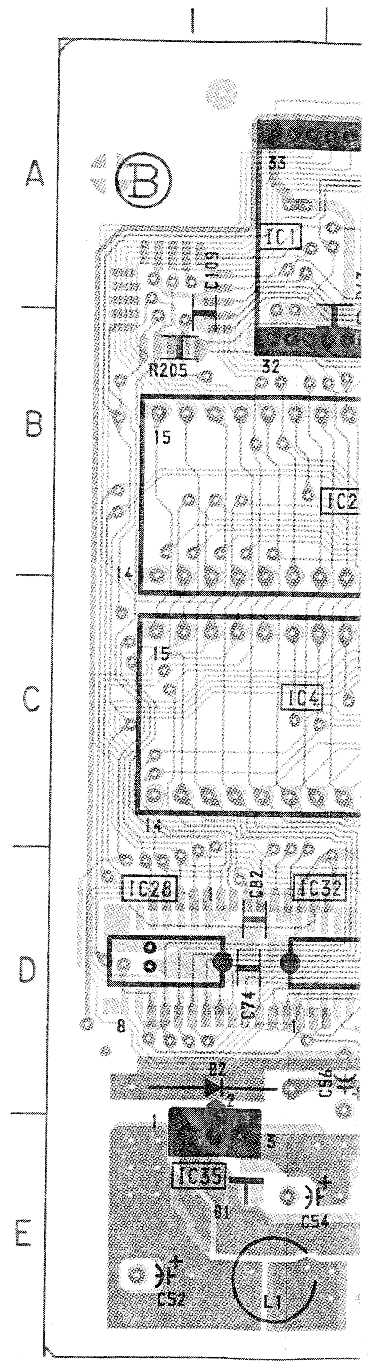
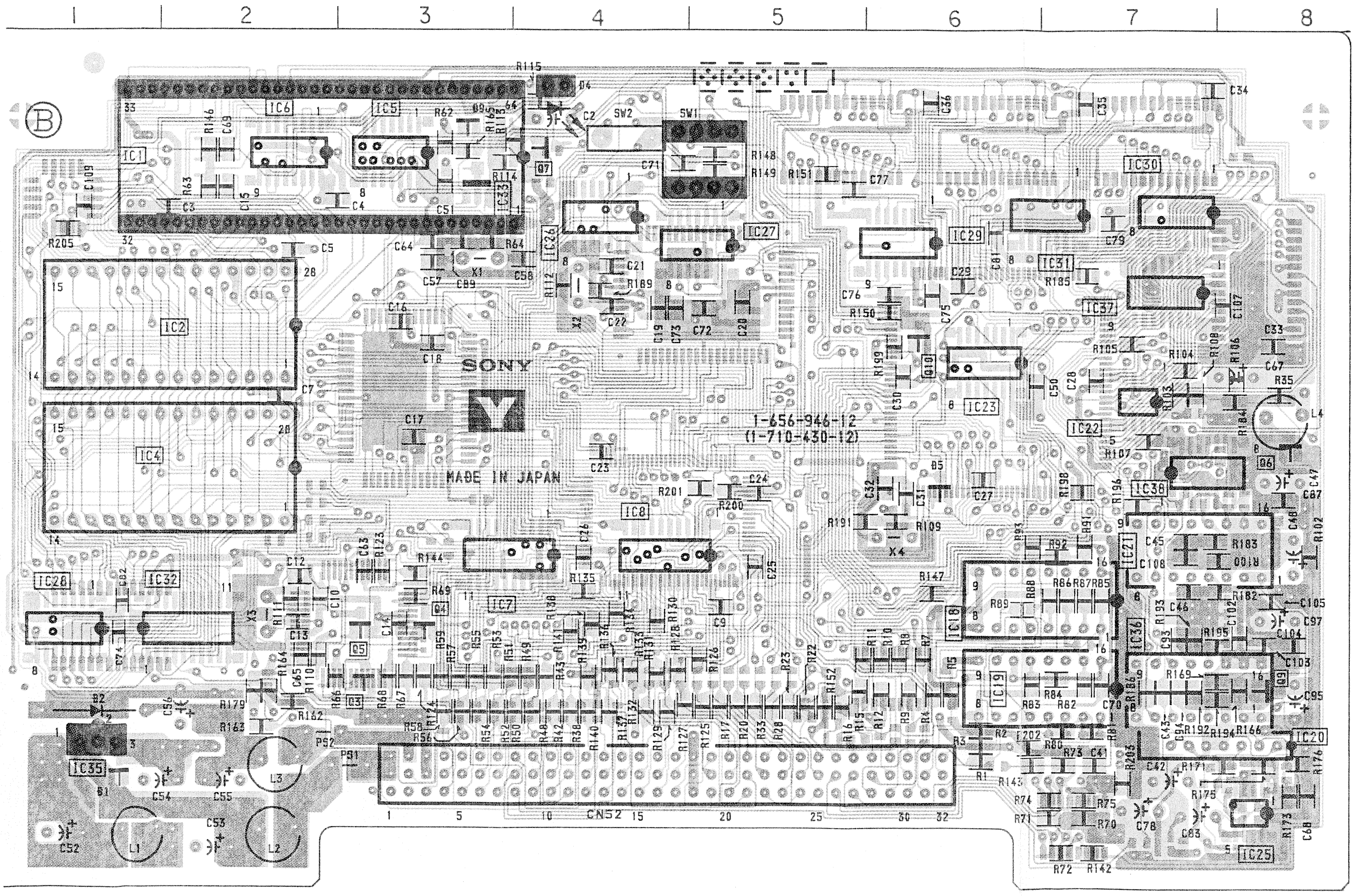
8
A
B
C
D
E
1-656-946-12
(1-710-430-12)
Ⓐ
IC17
IC16
IC15
IC1
IC2
IC3
IC4
IC9
IC10
IC11
IC12
IC13
IC14
IC18
IC19
IC20
IC21
IC24
IC34
IC35
IC36
IC39
A-1394-663-A
SW1
SW2
X1
X2
X3
X4
Q11
Q8
D2
D4
D7
D8
L1
L2
L3
L4
CN52
PS1
PS2
MADE IN JAPAN
SONY
DIP
C52
C53
C54
C55
C56

<Conductor Side>


A
B
C
D
E
Ⓑ
IC1
IC2
IC4
IC28
IC32
IC35
R205
C109
C82
C74
C52
C54
L1

onductor Side>



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B
IC1
IC2
IC4
IC5
IC6
IC7
IC8
IC18
IC19
IC20
IC21
IC22
IC23
IC25
IC26
IC27
IC28
IC29
IC30
IC31
IC32
IC33
IC35
IC36
IC37
IC38
SW1
SW2
X1
X2
X3
X4
SONY
Y
1-656-946-12
(1-710-430-12)
MADE IN JAPAN
CN52
PS1
PS2
L1
L2
L3
L4

Y BOARD
(CONDUCTOR SIDE)

IC	
IC1	A-2
IC2	B-2
IC4	C-2
IC5	A-3
IC6	A-2
IC7	D-3
IC8	C-4
IC18	D-6
IC19	D-6
IC20	D-7
IC21	D-7
IC22	C-7
IC23	B-6
IC25	E-8
IC26	B-4
IC27	B-5
IC28	D-1
IC29	B-6
IC30	B-7
IC31	B-7
IC32	D-2
IC33	A-3
IC35	E-1
IC36	D-7
IC37	B-7
IC38	C-7

TRANSISTOR	
Q3	D-3
Q4	D-3
Q5	D-3
Q6	C-8
Q7	A-4
Q9	D-8
Q10	B-6

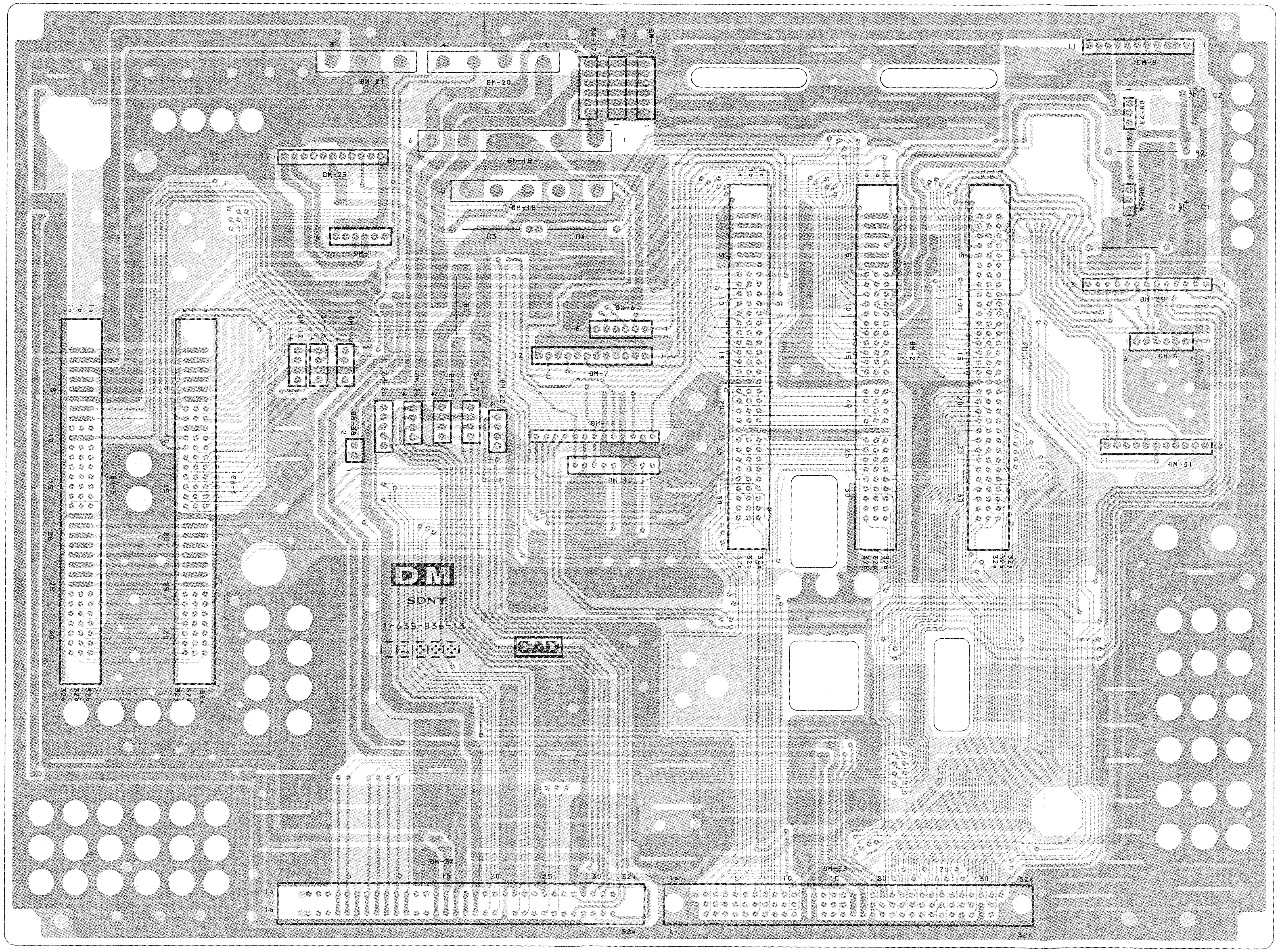
DIODE	
D2	D-1
D4	A-4
D5	C-6
D9	A-3

- ░ : Pattern from the side which enables seeing.
- ▒ : Pattern of the rear side.

DM [DEFLECTION MOTHER BOARD]

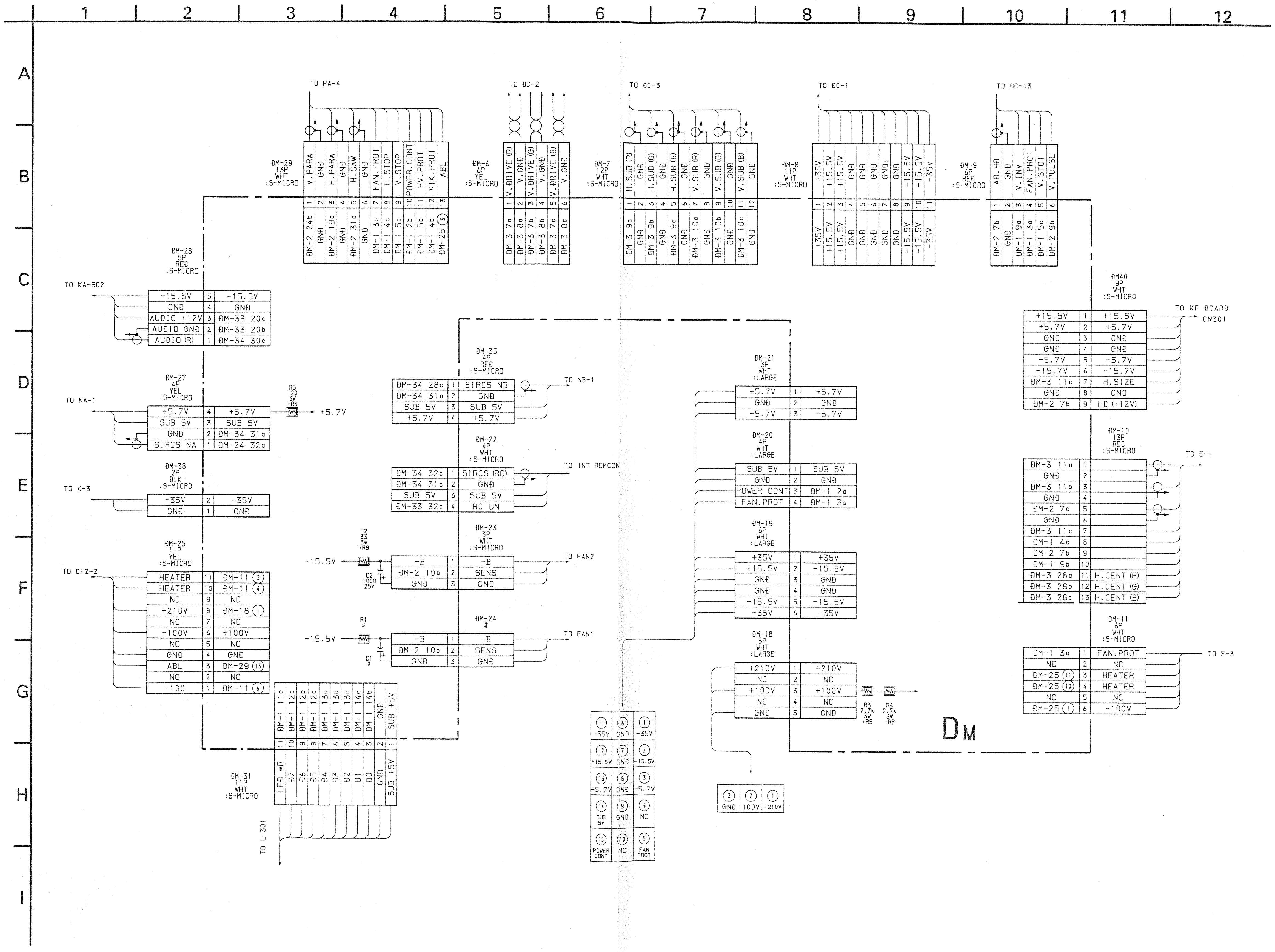
- ░ : Pattern from the side which enables seeing.
- ▒ : Pattern of the rear side.

– DM BOARD –


DM-21
DM-20
DM-15
DM-16
DM-17
DM-19
DM-18
DM-25
DM-11
R3
R4
R5
DM-8
DM-23
DM-24
C1
C2
R1
R2
DM-29
DM-9
DM-31
DM-6
DM-7
DM-10
DM-40
DM-3
DM-2
DM-1
DM-5
DM-4
DM-38
DM-28
DM-26
DM-35
DM-27
DM-32
DM-34
DM-33
DM
SONY
1-639-936-13
CAD

Schematic diagram

DM (1/2) board ➡


1
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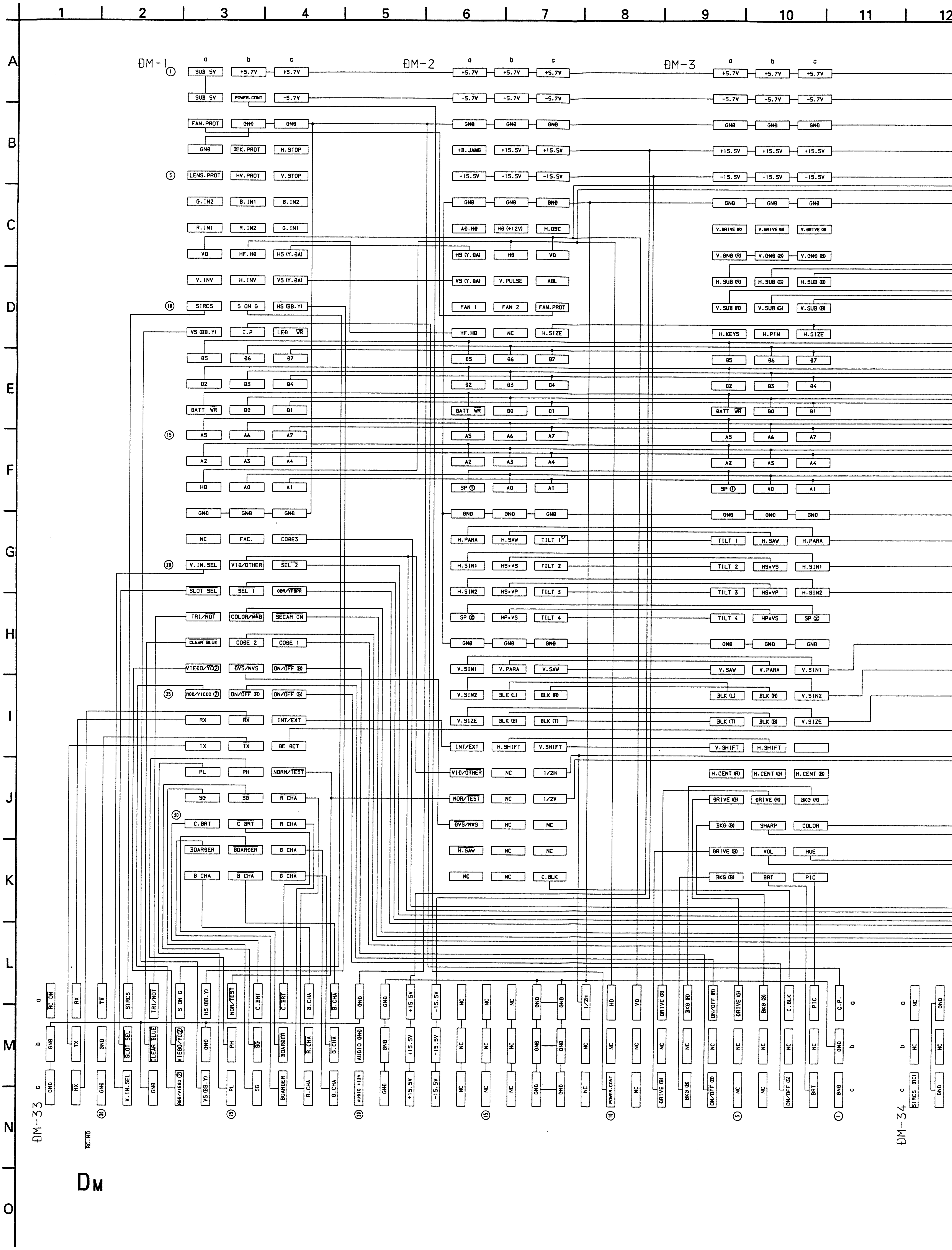
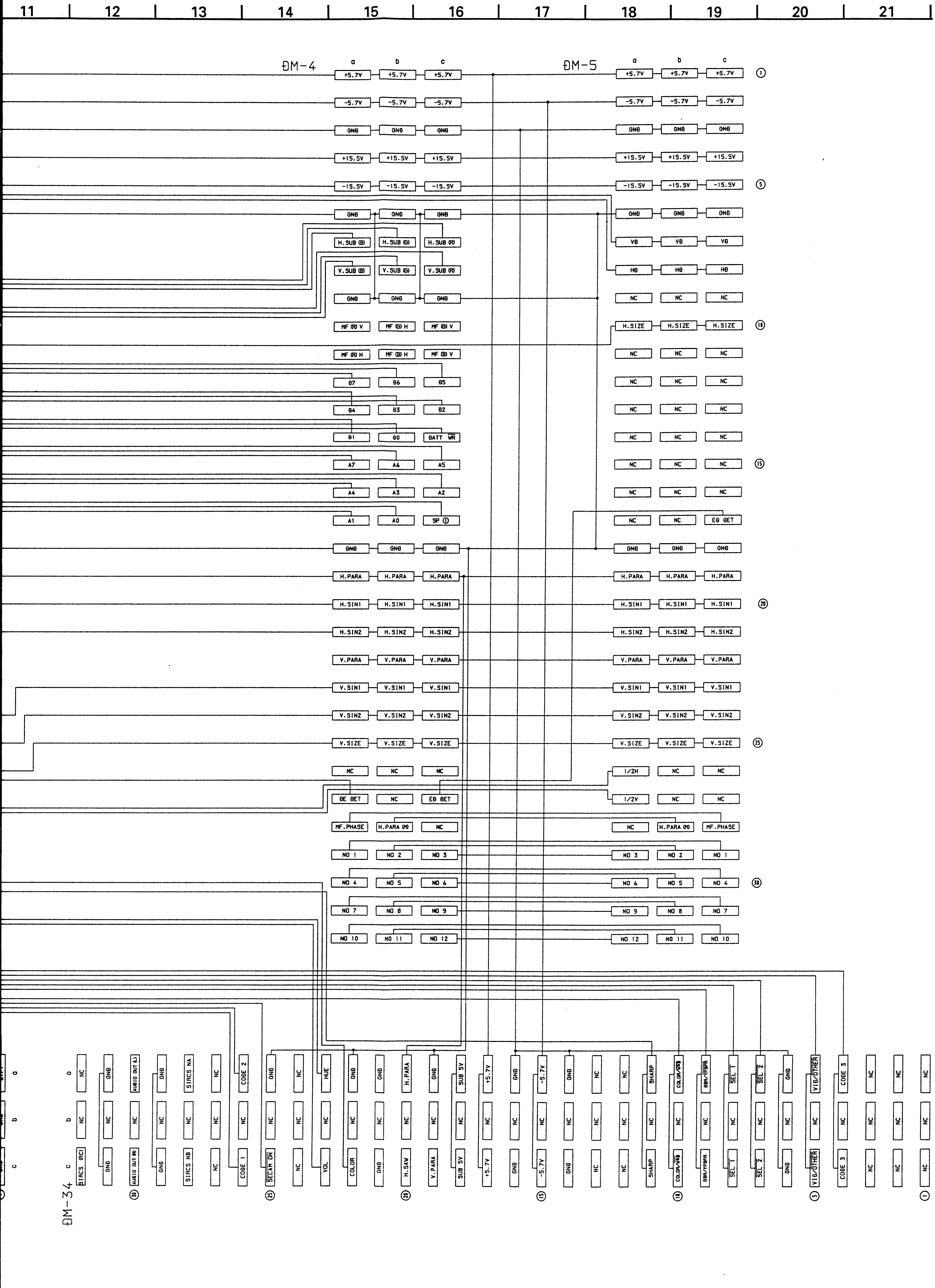
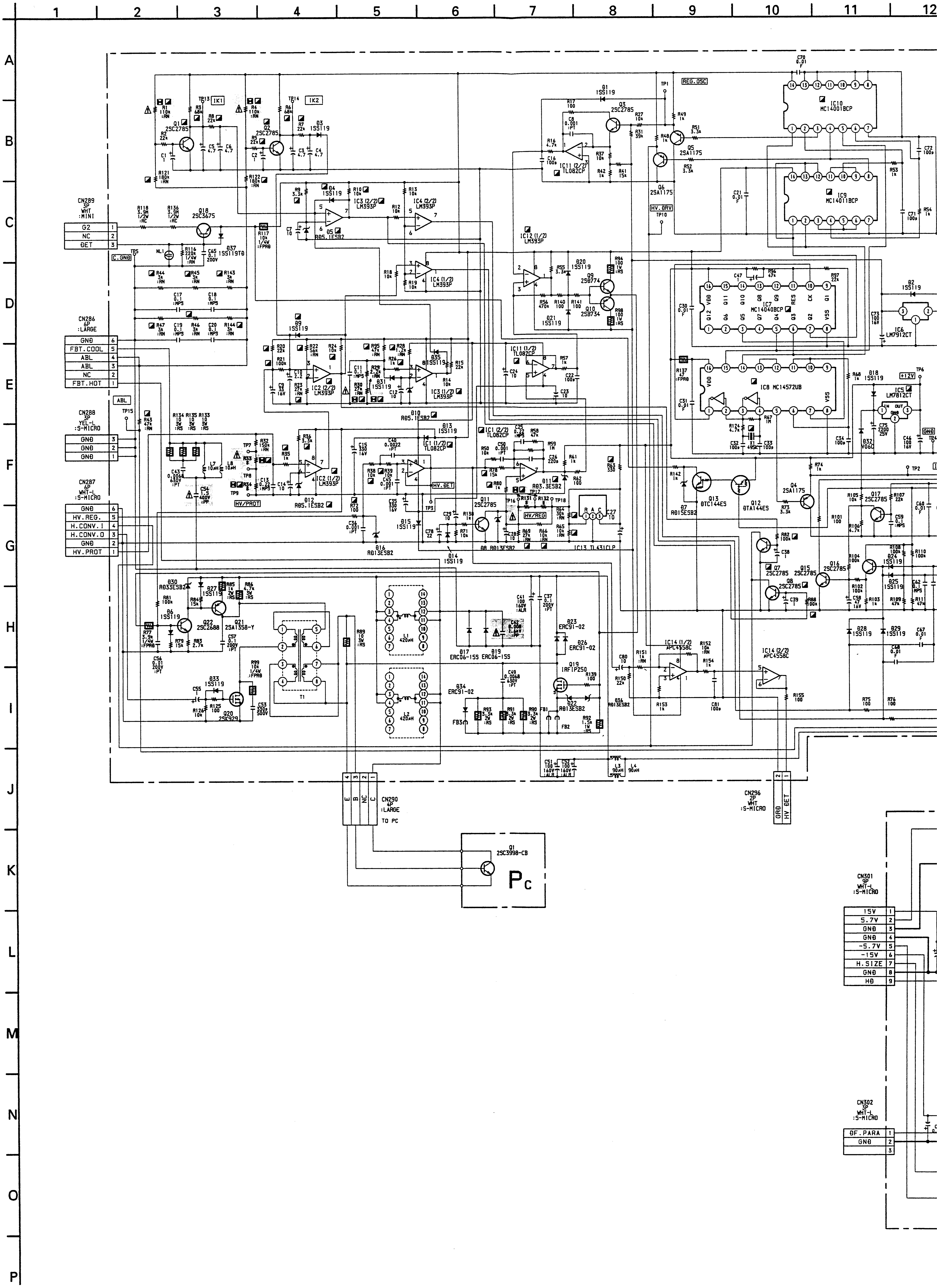
10
11
12
A
B
C
D
E
F
G
H
I
TO PA-4
TO DC-2
TO DC-3
TO DC-1
TO DC-13
DM-29 13P WHT :S-MICRO
V.PARA
GND
H.PARA
GND
H.SAW
GND
FAN.PROT
H.STOP
V.STOP
POWER.CONT
HV.PROT
ΣIK.PROT
ABL
DM-2 24b
DM-2 19a
DM-2 31a
DM-1 3a
DM-1 4c
DM-1 5c
DM-1 2b
DM-1 5b
DM-1 4b
DM-25 ③
DM-6 6P YEL :S-MICRO
V.DRIVE (R)
V.GND
V.DRIVE (G)
V.GND
V.DRIVE (B)
V.GND
DM-3 7a
DM-3 8a
DM-3 7b
DM-3 8b
DM-3 7c
DM-3 8c
DM-7 12P WHT :S-MICRO
H.SUB (R)
H.SUB (G)
H.SUB (B)
V.SUB (R)
V.SUB (G)
V.SUB (B)
DM-3 9a
DM-3 9b
DM-3 9c
DM-3 10a
DM-3 10b
DM-3 10c
DM-8 11P WHT :S-MICRO
+35V
+15.5V
-15.5V
-35V
DM-9 6P RED :S-MICRO
AB.HD
V.INV
FAN.PROT
V.STOT
V.PULSE
DM-2 7b
DM-1 9a
DM-1 3a
DM-1 5c
DM-2 9b
DM-28 5P RED :S-MICRO
TO KA-502
-15.5V
AUDIO +12V
AUDIO GND
AUDIO (R)
DM-33 20c
DM-33 20b
DM-34 30c
DM-27 4P YEL :S-MICRO
TO NA-1
+5.7V
SUB 5V
SIRCS NA
DM-34 31a
DM-24 32a
R5 120 3W :RS
+5.7V
DM-36 2P BLK :S-MICRO
TO K-3
-35V
DM-25 11P YEL :S-MICRO
TO CF2-2
HEATER
NC
+210V
+100V
ABL
-100
DM-11 ③
DM-11 ④
DM-18 ①
DM-29 ⑬
DM-11 ⑥
DM-35 4P RED :S-MICRO
TO NB-1
DM-34 28c
DM-34 31a
SUB 5V
SIRCS NB
DM-22 4P WHT :S-MICRO
TO INT REMCON
DM-34 32c
DM-33 32c
SIRCS (RC)
RC ON
R2 33 3W :RS
-15.5V
C2 1000 25V
DM-23 3P WHT :S-MICRO
TO FAN2
-B
DM-2 10a
SENS
R1 #
C1 #
DM-24 #
TO FAN1
DM-2 10b
DM-31 11P WHT :S-MICRO
DM-1 11c
DM-1 12c
DM-1 12b
DM-1 12a
DM-1 13c
DM-1 13b
DM-1 13a
DM-1 14c
DM-1 14b
SUB +5V
LED WR
D7
D6
D5
D4
D3
D2
D1
D0
TO L-301
DM-21 3P WHT :LARGE
-5.7V
DM-20 4P WHT :LARGE
POWER CONT
FAN.PROT
DM-1 2a
DM-1 3a
DM-19 6P WHT :LARGE
DM-18 5P WHT :LARGE
R3 2.7k 3W :RS
R4 2.7k 3W :RS
+35V
+15.5V
+5.7V
SUB 5V
POWER CONT
-35V
-15.5V
-5.7V
FAN PROT
100V
+210V
DM
DM40 9P WHT :S-MICRO
TO KF BOARD CN301
-15.7V
DM-3 11c
H.SIZE
DM-2 7b
HD (+12V)
DM-10 13P RED :S-MICRO
TO E-1
DM-3 11a
DM-3 11b
DM-2 7c
DM-1 4c
DM-1 9b
DM-3 28a
DM-3 28b
DM-3 28c
H.CENT (R)
H.CENT (G)
H.CENT (B)
DM-11 6P WHT :S-MICRO
TO E-3
DM-25 ⑪
DM-25 ⑩
DM-25 ①
-100V

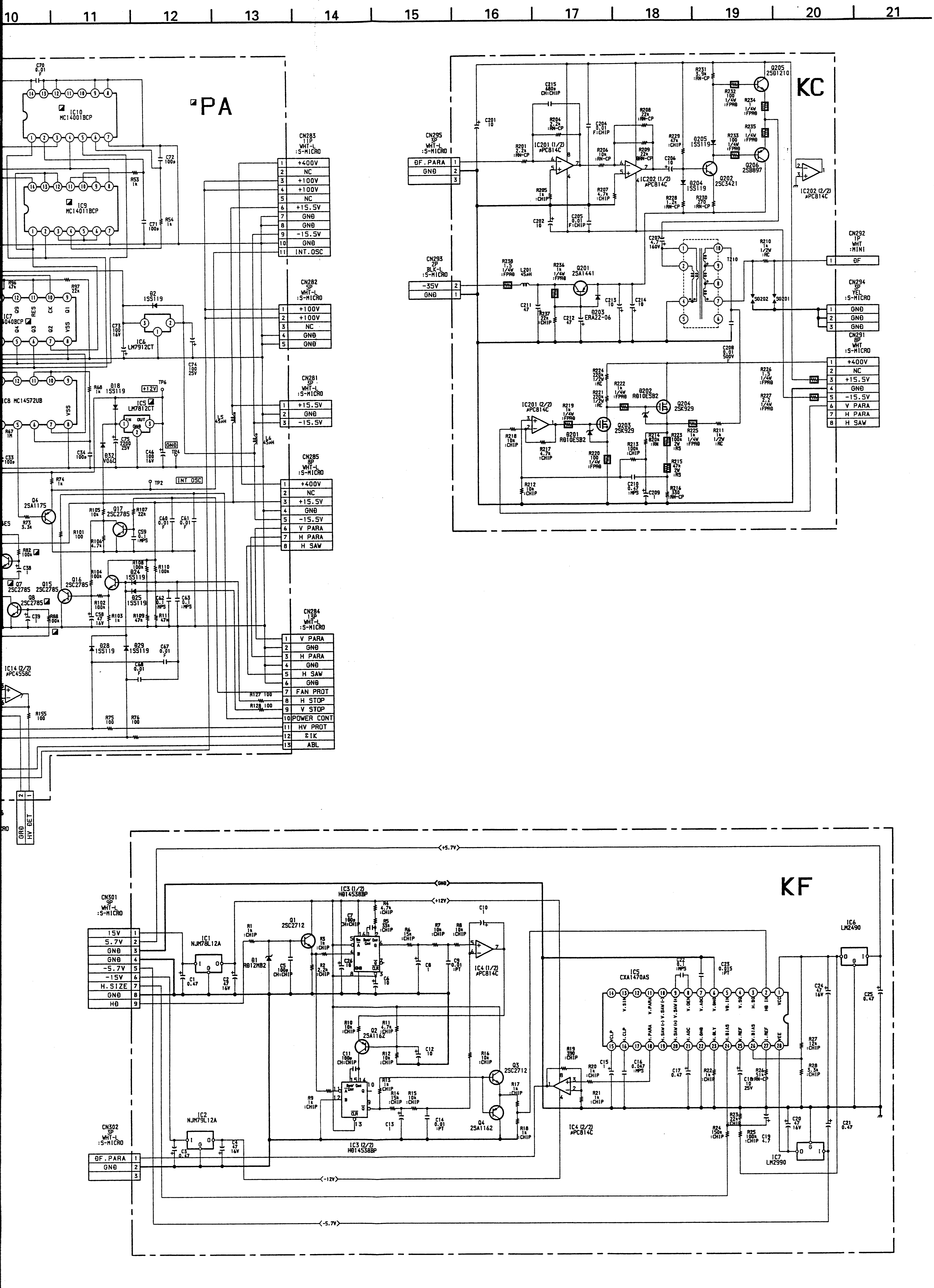

ĐM-1
ĐM-2
ĐM-3
ĐM-33
ĐM-34
RC.NO
DM
a
b
c
SUB 5V
+5.7V
-5.7V
POWER.CONT
FAN.PROT
GND
H.STOP
V.STOP
LENS.PROT
HV.PROT
G.IN2
B.IN1
B.IN2
R.IN1
R.IN2
G.IN1
VD
HF.HD
HS (Y.BA)
V.INV
H.INV
VS (Y.BA)
SIRCS
S ON G
HS (BB.Y)
VS (BB.Y)
C.P
LED WR
BATT WR
H.PARA
H.SAW
H.SIN1
H.SIN2
TILT 1
TILT 2
TILT 3
TILT 4
V.SIN1
V.SIN2
V.PARA
V.SAW
V.SIZE
H.SIZE
V.SHIFT
H.SHIFT
INT/EXT
H.CENT (R)
H.CENT (G)
H.CENT (B)
DRIVE (G)
DRIVE (R)
DRIVE (B)
BKG (R)
BKG (G)
BKG (B)
SHARP
COLOR
VOL
HUE
BRT
PIC
C.BLK
RX
TX
PL
PH
SG
C.BRT
BOARDER
R CHA
G CHA
B CHA
+15.5V
-15.5V
NC
AUDIO GND
AUDIO +12V
1/2H
HD
POWER.CONT
RC ON


11
12
13
14
15
16
17
18
19
20
21
DM-4
a
b
c
+5.7V
+5.7V
+5.7V
-5.7V
-5.7V
-5.7V
GND
GND
GND
+15.5V
+15.5V
+15.5V
-15.5V
-15.5V
-15.5V
GND
GND
GND
H.SUB (B)
H.SUB (G)
H.SUB (R)
V.SUB (B)
V.SUB (G)
V.SUB (R)
GND
GND
GND
MF (R) V
MF (G) H
MF (G) V
MF (R) H
MF (B) H
MF (B) V
D7
D6
D5
D4
D3
D2
D1
D0
DATT WR
A7
A6
A5
A4
A3
A2
A1
A0
SP ①
GND
GND
GND
H.PARA
H.PARA
H.PARA
H.SIN1
H.SIN1
H.SIN1
H.SIN2
H.SIN2
H.SIN2
V.PARA
V.PARA
V.PARA
V.SIN1
V.SIN1
V.SIN1
V.SIN2
V.SIN2
V.SIN2
V.SIZE
V.SIZE
V.SIZE
NC
NC
NC
DE DET
NC
ED DET
MF.PHASE
H.PARA (M)
NC
NO 1
NO 2
NO 3
NO 4
NO 5
NO 6
NO 7
NO 8
NO 9
NO 10
NO 11
NO 12
DM-5
a
b
c
+5.7V
+5.7V
+5.7V
①
-5.7V
-5.7V
-5.7V
GND
GND
GND
+15.5V
+15.5V
+15.5V
-15.5V
-15.5V
-15.5V
⑤
GND
GND
GND
VD
VD
VD
HD
HD
HD
NC
NC
NC
H.SIZE
H.SIZE
H.SIZE
⑩
NC
NC
NC
NC
NC
NC
NC
NC
NC
NC
NC
NC
NC
NC
NC
⑮
NC
NC
NC
NC
NC
ED DET
GND
GND
GND
H.PARA
H.PARA
H.PARA
H.SIN1
H.SIN1
H.SIN1
⑳
H.SIN2
H.SIN2
H.SIN2
V.PARA
V.PARA
V.PARA
V.SIN1
V.SIN1
V.SIN1
V.SIN2
V.SIN2
V.SIN2
V.SIZE
V.SIZE
V.SIZE
㉕
1/2H
NC
NC
1/2V
NC
NC
NC
H.PARA (M)
MF.PHASE
NO 3
NO 2
NO 1
NO 6
NO 5
NO 4
㉚
NO 9
NO 8
NO 7
NO 12
NO 11
NO 10
DM-34
a
b
c
NC
NC
SIRCS (RC)
GND
NC
GND
AUDIO OUT (L)
NC
AUDIO OUT (R)
㉚
GND
NC
GND
SIRCS NA
NC
SIRCS NB
NC
NC
NC
CODE 2
NC
CODE 1
GND
NC
SECAM ON
㉕
NC
NC
NC
HUE
NC
VOL
GND
NC
COLOR
GND
NC
GND
H.PARA
NC
H.SAW
⑳
GND
NC
V.PARA
SUB 5V
NC
SUB 5V
+5.7V
NC
+5.7V
GND
NC
GND
-5.7V
NC
-5.7V
⑮
GND
NC
GND
NC
NC
NC
NC
NC
NC
SHARP
NC
SHARP
COLOR/VGB
NC
COLOR/VGB
⑩
GBR/YPBPR
NC
GBR/YPBPR
SEL 1
NC
SEL 1
SEL 2
NC
SEL 2
GND
NC
GND
VID/OTHER
NC
VID/OTHER
⑤
CODE 3
NC
CODE 3
NC
NC
NC
NC
NC
NC
NC
NC
NC
①
a
b
c

Schematic diagram
← DM (2/2) board

Schematic diagrams
KC, KF, PA boards →

CN289 3P WHT :MINI
G2
NC
DET
CN286 6P :LARGE
GND
FBT.COOL
ABL
ABL
NC
FBT.HOT
CN288 3P YEL-L :S-MICRO
GND
GND
GND
CN287 6P WHT-L :S-MICRO
GND
HV.REG.
H.CONV.I
H.CONV.O
GND
HV.PROT
C.GND
ABL
IK1
IK2
REG.OSC
HV.DRV
HV.DET
HV/PROT
HV/REG
Q1 2SC2785
Q2 2SC2785
Q3 2SC2785
Q5 2SA1175
Q6 2SA1175
Q9 2SB774
Q10 2SB734
Q11 2SC2785
Q12 DTA144ES
Q13 DTC144ES
Q18 2SC3675
Q19 IRF1P250
Q20 2SK929
Q21 2SA1358-Y
Q22 2SC2688
IC3 (2/2) LM393P
IC4 (2/2) LM393P
IC4 (1/2) LM393P
IC2 (2/2) LM393P
IC2 (1/2) LM393P
IC3 (1/2) LM393P
IC1 (1/2) TL082CP
IC1 (2/2) TL082CP
IC11 (1/2) TL082CP
IC11 (2/2) TL082CP
IC12 (1/2) LM393P
IC13 TL431CLP
IC14 (1/2) μPC4558C
IC14 (2/2) μPC4558C
IC10 MC14001BCP
IC9 MC14011BCP
IC7 MC14040BCP
IC8 MC14572UB
IC4 LM7912CT
IC5 LM7812CT
+12V
L1 420μH
L2 420μH
T1
L3 90μH
L4 90μH
CN290 4P :LARGE TO PC
E
B
NC
C
Q1 2SC3998-CB
Pc
CN296 2P WHT :S-MICRO
GND
HV DET
CN301 9P WHT-L :S-MICRO
15V
5.7V
GND
GND
-5.7V
-15V
H.SIZE
GND
HD
CN302 3P WHT-L :S-MICRO
DF.PARA
GND


10
11
12
13
14
15
16
17
18
19
20
21
PA
KC
KF
IC10 MC14001BCP
IC9 MC14011BCP
IC7
IC8 MC14572UB
IC6 LM7912CT
IC5 LM7812CT
IC14 (2/2) μPC4558C
CN283 11P WHT-L :S-MICRO
+400V
NC
+100V
+100V
NC
+15.5V
GND
GND
-15.5V
GND
INT.OSC
CN282 5P WHT-L :S-MICRO
CN281 3P WHT-L :S-MICRO
CN285 8P WHT-L :S-MICRO
V PARA
H PARA
H SAW
CN284 13P WHT-L :S-MICRO
FAN PROT
H STOP
V STOP
POWER CONT
HV PROT
ΣIK
ABL
GND
HV DET
CN295 3P WHT-L :S-MICRO
DF.PARA
CN293 2P BLK-L :S-MICRO
-35V
IC201 (1/2) μPC814C
IC202 (1/2) μPC814C
IC202 (2/2) μPC814C
IC201 (2/2) μPC814C
Q201 2SA1441
Q202 2SC3421
Q205 2SD1210
Q206 2SB897
Q203 2SK929
Q204 2SK929
T210
CN292 1P WHT :MINI
DF
CN294 3P YEL :S-MICRO
CN291 8P WHT :S-MICRO
CN301 9P WHT-L :S-MICRO
15V
5.7V
-5.7V
-15V
H.SIZE
HD
IC1 NJM78L12A
IC2 NJM79L12A
IC3 (1/2) HD14538BP
IC3 (2/2) HD14538BP
IC4 (1/2) μPC814C
IC4 (2/2) μPC814C
Q1 2SC2712
Q2 2SA1162
Q3 2SC2712
Q4 2SA1162
IC5 CXA1470AS
IC6 LM2490
IC7 LM2990
CN302 3P WHT-L :S-MICRO
(+5.7V)
(GND)
(+12V)
(-12V)
(-5.7V)

PA [HIGH VOLTAGE REG]

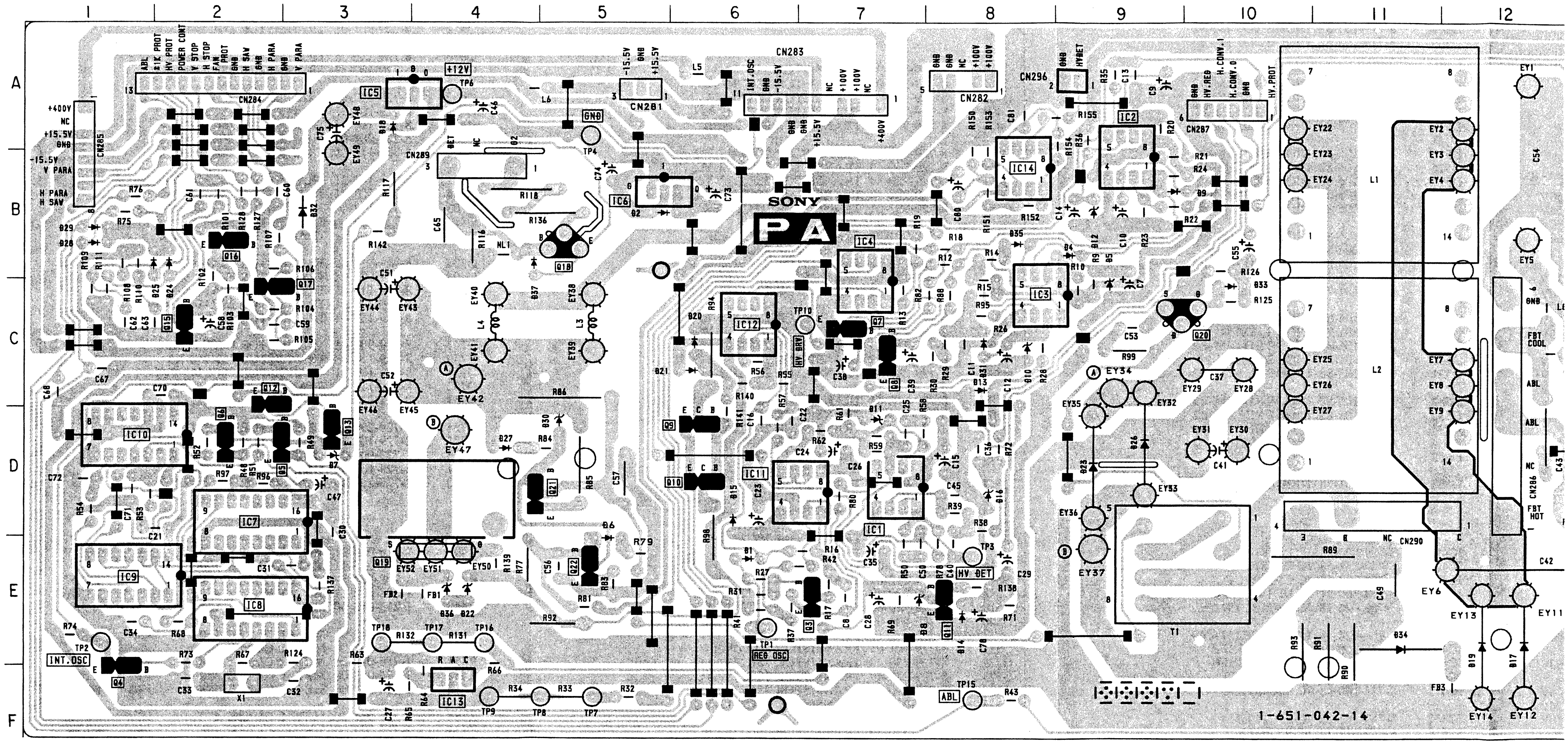
PA BOARD

IC	
IC1	D-7
IC2	B-9
IC3	C-8
IC4	B-7
IC5	A-3
IC6	B-5
IC7	D-2
IC8	E-2
IC9	E-1
IC10	D-1
IC11	D-7
IC12	C-6
IC13	F-4
IC14	B-8

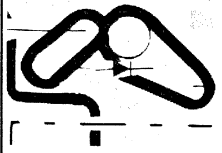
TRANSISTOR	
Q1	B-13
Q2	A-13
Q3	E-7
Q4	F-1
Q5	D-2
Q6	D-2
Q7	C-7
Q8	C-7
Q9	D-6
Q10	D-6
Q11	E-8
Q12	C-2
Q13	D-3
Q15	C-2
Q16	B-2
Q17	C-2
Q18	B-5
Q19	E-4
Q20	C-10
Q21	D-5
Q22	E-5

DIODE	
D1	E-6
D2	B-5
D3	A-13
D4	B-9
D5	C-9
D6	E-5
D7	D-3
D8	E-7
D9	B-9
D10	C-8
D11	D-7
D12	B-9
D13	C-8
D14	E-8
D15	D-6
D16	D-8
D17	E-12
D18	A-3
D19	E-12
D20	C-6
D21	C-6
D22	E-4
D23	D-9
D24	B-2
D25	B-2
D26	D-9
D27	D-4
D28	B-1
D29	B-1
D30	D-5
D31	C-8
D32	B-3
D33	C-10
D34	E-11
D35	B-8
D36	E-4
D37	B-4

– PA BOARD –

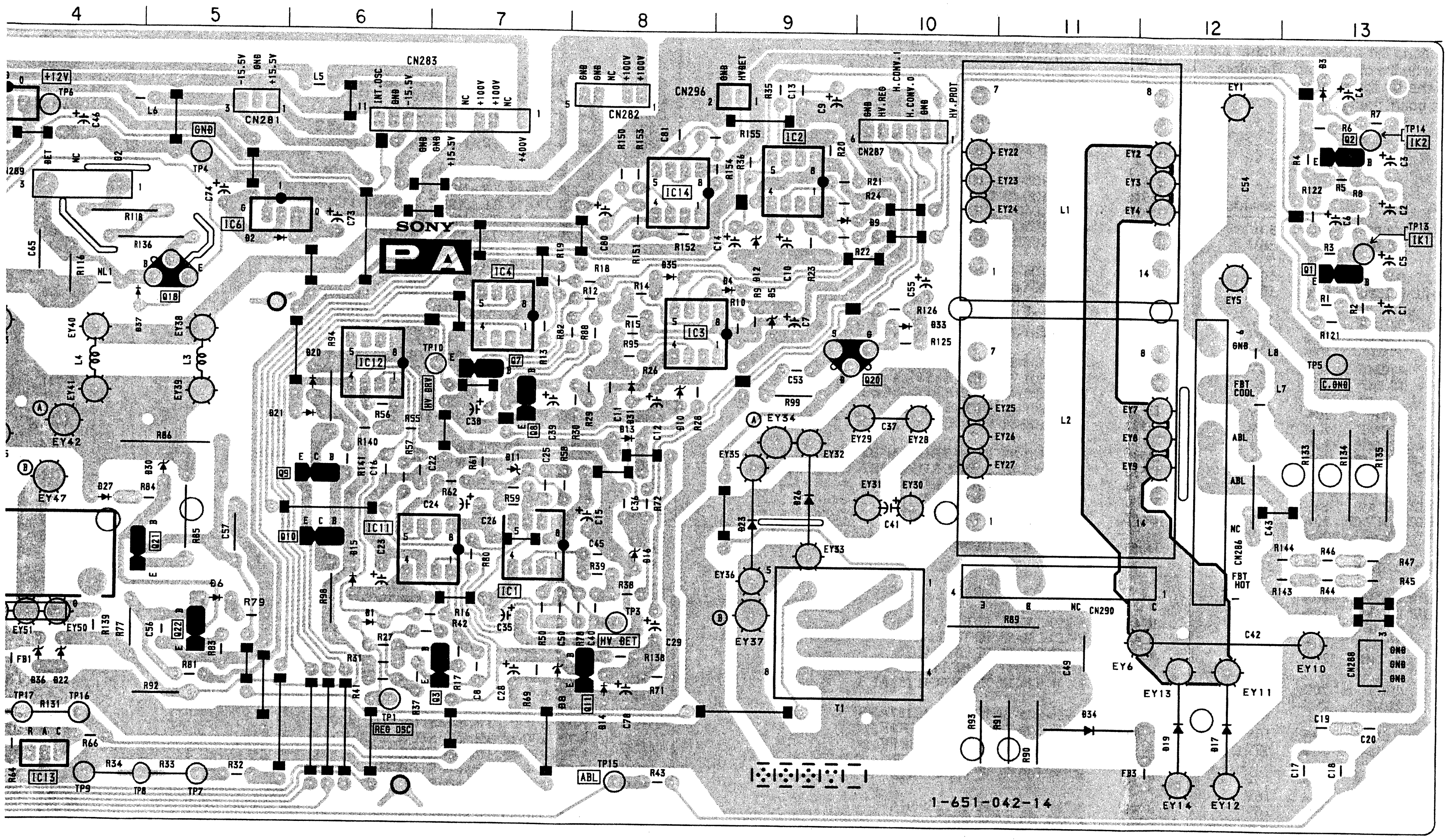


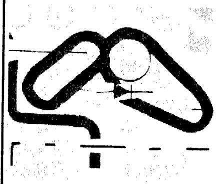
1
2
3
4
5
6
7
8
9
10
11
12
A
B
C
D
E
F
SONY
PA
CN283
CN281
CN282
CN284
CN285
CN287
CN289
CN290
CN296
T1
L1
L2
HV DET
INT.OSC
REG OSC
ABL
1-651-042-14



NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

- ▨ : Pattern fro
- ▩ : Pattern of t

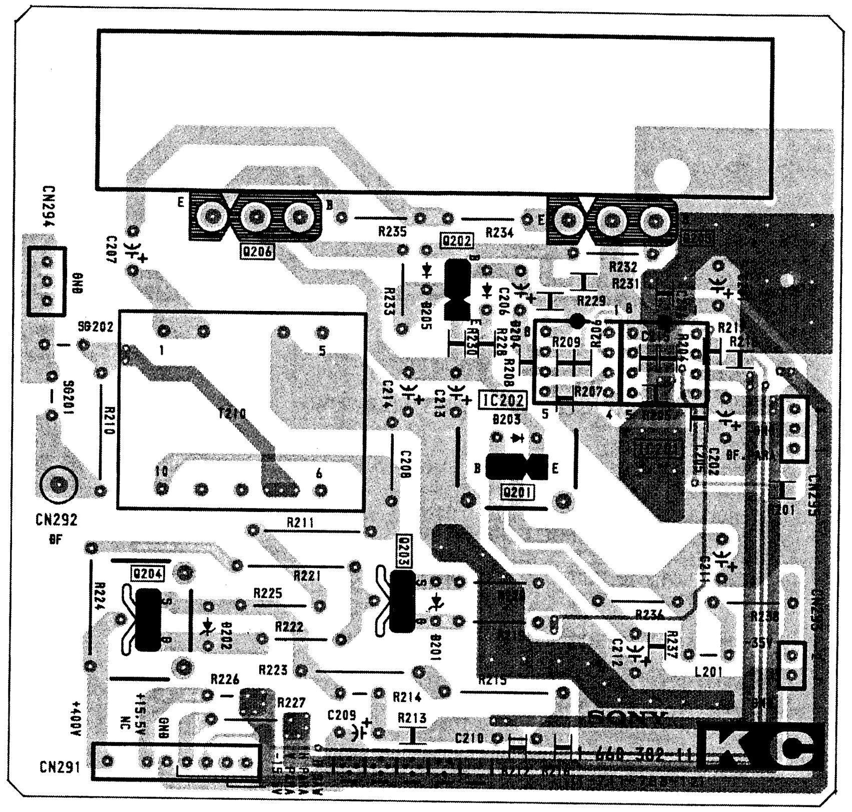

4
5
6
7
8
9
10
11
12
13
SONY
PA
CN281
CN282
CN283
CN286
CN287
CN288
CN290
CN296
L1
L2
T1
1-651-042-14



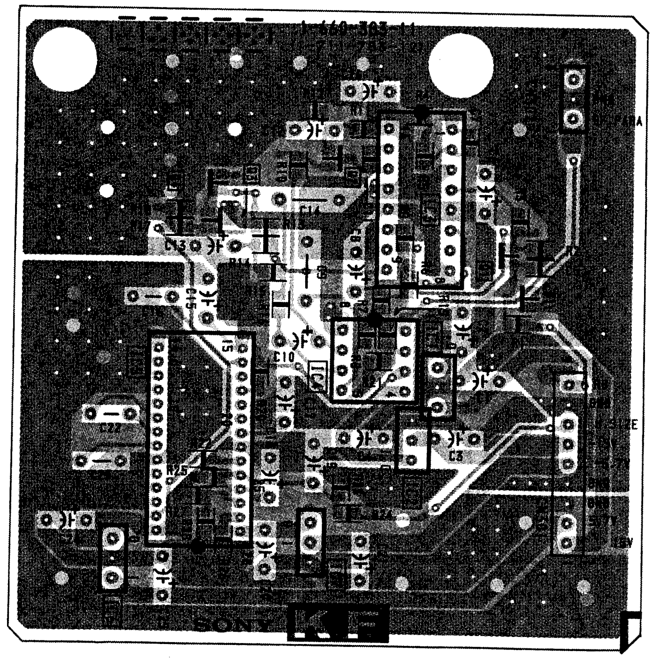
NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

KC KF [DYNAMIC FOCUS]

- KC BOARD -


CN291
CN292
CN294
T210
IC202
Q201
Q202
Q203
Q204
Q205
Q206
SONY
KC

- KF BOARD -



- ▒ : Pattern from the side which enables seeing.
- ▓ : Pattern of the rear side.

SECTION 3
ELECTRICAL PARTS LIST

NOTE:

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The componants identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

- The components identified by ☒ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS
- All resistors are in ohms
- F : nonflammable

When indicating parts by reference number, please include the board name.

- CAPACITORS
  PF : μμ F
- There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.

REF. NO.	PART NO.	DESCRIPTION			REMARK
	* A-1135-693-A	BB BOARD, COMPLETE **********************			
	1-564-595-11	PLUG, CONNECTOR 14P			
	* 1-568-984-11	CONNECTOR, MALE 96P			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
	7-322-065-19	RUBBER, SILICON RTV (KE490W)			
		<CAPACITOR>			
C402	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C404	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C405	1-126-933-11	ELECT	100MF	20%	16V
C406	1-126-934-11	ELECT	220MF	20%	16V
C407	1-126-933-11	ELECT	100MF	20%	16V
C408	1-126-964-11	ELECT	10MF	20%	50V
C409	1-126-933-11	ELECT	100MF	20%	16V
C412	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C413	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C414	1-126-964-11	ELECT	10MF	20%	50V
C415	1-126-933-11	ELECT	100MF	20%	16V
C416	1-126-933-11	ELECT	100MF	20%	16V
C417	1-126-934-11	ELECT	220MF	20%	16V
C418	1-126-933-11	ELECT	100MF	20%	16V
C419	1-126-933-11	ELECT	100MF	20%	16V
C425	1-126-933-11	ELECT	100MF	20%	16V
C450	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C451	1-126-935-11	ELECT	470MF	20%	16V
C453	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C501	1-126-964-11	ELECT	10MF	20%	50V
C502	1-126-964-11	ELECT	10MF	20%	50V
C503	1-126-967-11	ELECT	47MF	20%	16V
C504	1-126-967-11	ELECT	47MF	20%	16V
C505	1-126-963-11	ELECT	4.7MF	20%	50V
C506	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C507	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C508	1-126-967-11	ELECT	47MF	20%	16V
C509	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C510	1-126-967-11	ELECT	47MF	20%	16V
C511	1-126-935-11	ELECT	470MF	20%	16V
C512	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C513	1-126-967-11	ELECT	47MF	20%	16V
C514	1-126-963-11	ELECT	4.7MF	20%	50V
C515	1-126-963-11	ELECT	4.7MF	20%	50V
C516	1-126-963-11	ELECT	4.7MF	20%	50V
C518	1-126-964-11	ELECT	10MF	20%	50V
C519	1-126-964-11	ELECT	10MF	20%	50V
C520	1-124-903-11	ELECT	1MF	20%	50V
C521	1-126-964-11	ELECT	10MF	20%	50V
C522	1-126-964-11	ELECT	10MF	20%	50V
C523	1-163-833-00	CERAMIC CHIP	0.068MF		25V
C524	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C525	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C526	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C527	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C528	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C529	1-126-965-11	ELECT	22MF	20%	50V
C650	1-107-714-11	ELECT	10MF	20%	50V
C651	1-136-169-00	FILM	0.22MF	5%	50V
C652	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C653	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C654	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C655	1-126-967-11	ELECT	47MF	20%	50V
C657	1-126-935-11	ELECT	470MF	20%	16V
C658	1-126-968-11	ELECT	100MF	20%	50V
C660	1-126-964-11	ELECT	10MF	20%	50V
C692	1-126-968-11	ELECT	100MF	20%	50V
C693	1-126-968-11	ELECT	100MF	20%	50V
C694	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C695	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C696	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C697	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C700	1-107-714-11	ELECT	10MF	20%	50V
C701	1-136-169-00	FILM	0.22MF	5%	50V
C702	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C703	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C707	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C708	1-126-967-11	ELECT	47MF	20%	50V
C710	1-126-968-11	ELECT	100MF	20%	50V
C711	1-126-935-11	ELECT	470MF	20%	16V
C713	1-126-964-11	ELECT	10MF	20%	50V
C750	1-107-714-11	ELECT	10MF	20%	50V
C751	1-136-169-00	FILM	0.22MF	5%	50V
C752	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C753	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C754	1-126-933-11	ELECT	100MF	20%	16V
C755	1-126-933-11	ELECT	100MF	20%	16V
C756	1-126-933-11	ELECT	100MF	20%	16V
C757	1-126-967-11	ELECT	47MF	20%	50V
C759	1-126-968-11	ELECT	100MF	20%	50V
C760	1-126-935-11	ELECT	470MF	20%	16V
C762	1-126-965-11	ELECT	22MF	20%	50V
C763	1-126-964-11	ELECT	10MF	20%	50V
C914	1-126-933-11	ELECT	100MF	20%	16V

REF. NO.	PART NO.	DESCRIPTION	REMARK
		<CONNECTOR>	
CN90	1-564-506-11	PLUG, CONNECTOR 3P	
		<DIODE>	
D401	8-719-900-95	DIODE V09G	
D402	8-719-900-95	DIODE V09G	
D440	8-719-801-78	DIODE 1SS184	
D450	8-719-801-78	DIODE 1SS184	
D451	8-719-801-78	DIODE 1SS184	
D452	8-719-105-28	DIODE RD2.4M-B	
D501	8-719-801-78	DIODE 1SS184	
D502	8-719-801-78	DIODE 1SS184	
D503	8-719-106-80	DIODE RD13M-B2	
D504	8-719-105-82	DIODE RD5.1M-B2	
D505	8-719-801-78	DIODE 1SS184	
D506	8-719-105-82	DIODE RD5.1M-B2	
D507	8-719-105-82	DIODE RD5.1M-B2	
D508	8-719-105-82	DIODE RD5.1M-B2	
D509	8-719-105-82	DIODE RD5.1M-B2	
D510	8-719-105-82	DIODE RD5.1M-B2	
D511	8-719-105-82	DIODE RD5.1M-B2	
D512	8-719-105-82	DIODE RD5.1M-B2	
D513	8-719-105-82	DIODE RD5.1M-B2	
D514	8-719-105-82	DIODE RD5.1M-B2	
D515	8-719-105-82	DIODE RD5.1M-B2	
D516	8-719-106-80	DIODE RD13M-B2	
D518	8-719-106-80	DIODE RD13M-B2	
D520	8-719-105-82	DIODE RD5.1M-B2	
D521	8-719-105-82	DIODE RD5.1M-B2	
D522	8-719-106-80	DIODE RD13M-B2	
D523	8-719-106-80	DIODE RD13M-B2	
D524	8-719-105-82	DIODE RD5.1M-B2	
D525	8-719-105-28	DIODE RD2.4M-B	
D526	8-719-801-78	DIODE 1SS184	
D527	8-719-105-82	DIODE RD5.1M-B2	
D528	8-719-801-78	DIODE 1SS184	
D529	8-719-105-46	DIODE RD3.3M-B2	
D530	8-719-801-78	DIODE 1SS184	
D531	8-719-105-82	DIODE RD5.1M-B2	
D532	8-719-105-82	DIODE RD5.1M-B2	
D533	8-719-105-82	DIODE RD5.1M-B2	
D534	8-719-105-82	DIODE RD5.1M-B2	
D634	8-719-801-78	DIODE 1SS184	
D652	8-719-801-78	DIODE 1SS184	
D653	8-719-801-78	DIODE 1SS184	
		<IC>	
IC401	8-759-800-81	IC LA7016	
IC402	8-759-231-58	IC TA7812S	
IC403	8-759-929-65	IC LM7912CT	
IC404	8-759-300-71	IC HD14053BFP	
IC405	8-759-926-18	IC SN74HC157ANS	
IC407	8-759-926-18	IC SN74HC157ANS	
IC408	8-759-300-71	IC HD14053BFP	
IC409	8-759-300-71	IC HD14053BFP	
IC410	8-759-100-96	IC uPC4558G2	
IC411	8-759-100-96	IC uPC4558G2	
IC412	8-759-145-27	IC uPC1406HA	
IC413	8-749-922-84	IC BX-6474	
IC414	8-749-922-83	IC BX-6473	
IC415	8-749-922-83	IC BX-6473	
IC416	8-749-922-83	IC BX-6473	
IC417	8-749-010-54	IC BX7913A	
IC418	8-749-010-58	IC BX6589	
IC419	8-749-010-58	IC BX6589	
IC420	8-749-010-58	IC BX6589	
IC422	8-759-100-93	IC uPC393G2	
IC423	8-759-925-85	IC SN74HC32ANS	
IC424	8-759-100-93	IC uPC393G2	
		<JACK>	
J101	1-566-980-21	CONNECTOR, ROUND TYPE 4P	
		<COIL>	
L401	1-459-155-00	COIL (WITH CORE) 45UH	
L402	1-459-155-00	COIL (WITH CORE) 45UH	
L403	1-459-155-00	COIL (WITH CORE) 45UH	
L404	1-459-155-00	COIL (WITH CORE) 45UH	
L405	1-410-671-31	INDUCTOR 47UH	
L605	1-410-482-31	INDUCTOR 100UH	
L651	1-410-482-31	INDUCTOR 100UH	
		<TRANSISTOR>	
Q401	8-729-140-96	TRANSISTOR 2SD774-34	
Q402	8-729-140-97	TRANSISTOR 2SB734-34	
Q403	8-729-901-01	TRANSISTOR DTC144EK	
Q404	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q405	8-729-901-01	TRANSISTOR DTC144EK	
Q440	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q450	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q451	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q452	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q453	8-729-901-01	TRANSISTOR DTC144EK	
Q454	8-729-901-01	TRANSISTOR DTC144EK	
Q456	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q457	8-729-216-22	TRANSISTOR 2SA1162-G	
Q458	8-729-112-65	TRANSISTOR 2SA1462-T1Y33	
Q459	8-729-112-65	TRANSISTOR 2SA1462-T1Y33	
Q460	8-729-112-65	TRANSISTOR 2SA1462-T1Y33	
Q501	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q502	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q503	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q504	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q506	8-729-112-65	TRANSISTOR 2SA1462-T1Y33	
Q507	8-729-112-65	TRANSISTOR 2SA1462-T1Y33	
Q508	8-729-112-65	TRANSISTOR 2SA1462-T1Y33	
Q509	8-729-112-65	TRANSISTOR 2SA1462-T1Y33	
Q510	8-729-901-01	TRANSISTOR DTC144EK	
Q511	8-729-901-01	TRANSISTOR DTC144EK	
Q512	8-729-901-01	TRANSISTOR DTC144EK	
Q513	8-729-901-01	TRANSISTOR DTC144EK	
Q514	8-729-901-01	TRANSISTOR DTC144EK	
Q515	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q516	8-729-112-65	TRANSISTOR 2SA1462-T1Y33	
Q517	8-729-112-65	TRANSISTOR 2SA1462-T1Y33	
Q518	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q519	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q520	8-729-901-01	TRANSISTOR DTC144EK	
Q521	8-729-901-01	TRANSISTOR DTC144EK	
Q522	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q523	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q524	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q525	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q526	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q527	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q528	8-729-901-01	TRANSISTOR DTC144EK	
Q529	8-729-901-01	TRANSISTOR DTC144EK	
Q530	8-729-901-01	TRANSISTOR DTC144EK	
Q531	8-729-901-01	TRANSISTOR DTC144EK	
Q532	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q533	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q534	8-729-320-62	TRANSISTOR 2SD789-34	
Q535	8-729-901-01	TRANSISTOR DTC144EK	
Q536	8-729-901-01	TRANSISTOR DTC144EK	
Q537	8-729-901-01	TRANSISTOR DTC144EK	
Q538	8-729-901-01	TRANSISTOR DTC144EK	
Q539	8-729-901-01	TRANSISTOR DTC144EK	
Q540	8-729-901-01	TRANSISTOR DTC144EK	
Q541	8-729-901-01	TRANSISTOR DTC144EK	
Q542	8-729-901-01	TRANSISTOR DTC144EK	
Q543	8-729-901-01	TRANSISTOR DTC144EK	
Q544	8-729-901-01	TRANSISTOR DTC144EK	
Q545	8-729-216-22	TRANSISTOR 2SA1162-G	
Q546	8-729-901-01	TRANSISTOR DTC144EK	
Q547	8-729-216-22	TRANSISTOR 2SA1162-G	

REF. NO.	PAR
Q548	8-72
Q549	8-72
Q550	8-72
Q551	8-72
Q552	8-72
Q553	8-72
Q650	8-72
Q651	8-72
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Q656	8-72
Q700	8-72
Q701	8-72
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Q751	8-72
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Q754	8-72
Q755	8-72
Q756	8-72
Q757	8-72
Q800	8-72
R401	1-21
R403	1-21
R404	1-20
R405	1-20
R440	1-21
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R450	1-21
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R471	1-21
R472	1-21
R473	1-21
R474	1-21
R501	1-21
R502	1-21
R503	1-21
R504	1-21
R505	1-21

REF. NO.	PART NO.	DESCRIPTION	REMARK
D504	8-719-105-82	DIODE RD5.1M-B2	
D505	8-719-801-78	DIODE 1SS184	
D506	8-719-105-82	DIODE RD5.1M-B2	
D507	8-719-105-82	DIODE RD5.1M-B2	
D508	8-719-105-82	DIODE RD5.1M-B2	
D509	8-719-105-82	DIODE RD5.1M-B2	
D510	8-719-105-82	DIODE RD5.1M-B2	
D511	8-719-105-82	DIODE RD5.1M-B2	
D512	8-719-105-82	DIODE RD5.1M-B2	
D513	8-719-105-82	DIODE RD5.1M-B2	
D514	8-719-105-82	DIODE RD5.1M-B2	
D515	8-719-105-82	DIODE RD5.1M-B2	
D516	8-719-106-80	DIODE RD13M-B2	
D518	8-719-106-80	DIODE RD13M-B2	
D520	8-719-105-82	DIODE RD5.1M-B2	
D521	8-719-105-82	DIODE RD5.1M-B2	
D522	8-719-106-80	DIODE RD13M-B2	
D523	8-719-106-80	DIODE RD13M-B2	
D524	8-719-105-82	DIODE RD5.1M-B2	
D525	8-719-105-28	DIODE RD2.4M-B	
D526	8-719-801-78	DIODE 1SS184	
D527	8-719-105-82	DIODE RD5.1M-B2	
D528	8-719-801-78	DIODE 1SS184	
D529	8-719-105-46	DIODE RD3.3M-B2	
D530	8-719-801-78	DIODE 1SS184	
D531	8-719-105-82	DIODE RD5.1M-B2	
D532	8-719-105-82	DIODE RD5.1M-B2	
D533	8-719-105-82	DIODE RD5.1M-B2	
D534	8-719-105-82	DIODE RD5.1M-B2	
D634	8-719-801-78	DIODE 1SS184	
D652	8-719-801-78	DIODE 1SS184	
D653	8-719-801-78	DIODE 1SS184	

<IC>

REF. NO.	PART NO.	DESCRIPTION	REMARK
IC401	8-759-800-81	IC LA7016	
IC402	8-759-231-58	IC TA7812S	
IC403	8-759-929-65	IC LM7912CT	
IC404	8-759-300-71	IC HD14053BFP	
IC405	8-759-926-18	IC SN74HC157ANS	
IC407	8-759-926-18	IC SN74HC157ANS	
IC408	8-759-300-71	IC HD14053BFP	
IC409	8-759-300-71	IC HD14053BFP	
IC410	8-759-100-96	IC uPC4558G2	
IC411	8-759-100-96	IC uPC4558G2	
IC412	8-759-145-27	IC uPC1406HA	
IC413	8-749-922-84	IC BX-6474	
IC414	8-749-922-83	IC BX-6473	
IC415	8-749-922-83	IC BX-6473	
IC416	8-749-922-83	IC BX-6473	
IC417	8-749-010-54	IC BX7913A	
IC418	8-749-010-58	IC BX6589	
IC419	8-749-010-58	IC BX6589	
IC420	8-749-010-58	IC BX6589	
IC422	8-759-100-93	IC uPC393G2	
IC423	8-759-925-85	IC SN74HC32ANS	
IC424	8-759-100-93	IC uPC393G2	

<JACK>

REF. NO.	PART NO.	DESCRIPTION	REMARK
J101	1-566-980-21	CONNECTOR, ROUND TYPE 4P	

<COIL>

REF. NO.	PART NO.	DESCRIPTION	REMARK
L401	1-459-155-00	COIL (WITH CORE) 45UH	
L402	1-459-155-00	COIL (WITH CORE) 45UH	
L403	1-459-155-00	COIL (WITH CORE) 45UH	
L404	1-459-155-00	COIL (WITH CORE) 45UH	

REF. NO.	PART NO.	DESCRIPTION	REMARK
L405	1-410-671-31	INDUCTOR 47UH	
L605	1-410-482-31	INDUCTOR 100UH	
L651	1-410-482-31	INDUCTOR 100UH	

<TRANSISTOR>

REF. NO.	PART NO.	DESCRIPTION	REMARK
Q401	8-729-140-96	TRANSISTOR 2SD774-34	
Q402	8-729-140-97	TRANSISTOR 2SB734-34	
Q403	8-729-901-01	TRANSISTOR DTC144EK	
Q404	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q405	8-729-901-01	TRANSISTOR DTC144EK	
Q440	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q450	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q451	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q452	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q453	8-729-901-01	TRANSISTOR DTC144EK	
Q454	8-729-901-01	TRANSISTOR DTC144EK	
Q456	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q457	8-729-216-22	TRANSISTOR 2SA1162-G	
Q458	8-729-112-65	TRANSISTOR 2SA1462-T1Y33	
Q459	8-729-112-65	TRANSISTOR 2SA1462-T1Y33	
Q460	8-729-112-65	TRANSISTOR 2SA1462-T1Y33	
Q501	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q502	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q503	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q504	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q506	8-729-112-65	TRANSISTOR 2SA1462-T1Y33	
Q507	8-729-112-65	TRANSISTOR 2SA1462-T1Y33	
Q508	8-729-112-65	TRANSISTOR 2SA1462-T1Y33	
Q509	8-729-112-65	TRANSISTOR 2SA1462-T1Y33	
Q510	8-729-901-01	TRANSISTOR DTC144EK	
Q511	8-729-901-01	TRANSISTOR DTC144EK	
Q512	8-729-901-01	TRANSISTOR DTC144EK	
Q513	8-729-901-01	TRANSISTOR DTC144EK	
Q514	8-729-901-01	TRANSISTOR DTC144EK	
Q515	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q516	8-729-112-65	TRANSISTOR 2SA1462-T1Y33	
Q517	8-729-112-65	TRANSISTOR 2SA1462-T1Y33	
Q518	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q519	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q520	8-729-901-01	TRANSISTOR DTC144EK	
Q521	8-729-901-01	TRANSISTOR DTC144EK	
Q522	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q523	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q524	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q525	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q526	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q527	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q528	8-729-901-01	TRANSISTOR DTC144EK	
Q529	8-729-901-01	TRANSISTOR DTC144EK	
Q530	8-729-901-01	TRANSISTOR DTC144EK	
Q531	8-729-901-01	TRANSISTOR DTC144EK	
Q532	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q533	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q534	8-729-320-62	TRANSISTOR 2SD789-34	
Q535	8-729-901-01	TRANSISTOR DTC144EK	
Q536	8-729-901-01	TRANSISTOR DTC144EK	
Q537	8-729-901-01	TRANSISTOR DTC144EK	
Q538	8-729-901-01	TRANSISTOR DTC144EK	
Q539	8-729-901-01	TRANSISTOR DTC144EK	
Q540	8-729-901-01	TRANSISTOR DTC144EK	
Q541	8-729-901-01	TRANSISTOR DTC144EK	
Q542	8-729-901-01	TRANSISTOR DTC144EK	
Q543	8-729-901-01	TRANSISTOR DTC144EK	
Q544	8-729-901-01	TRANSISTOR DTC144EK	
Q545	8-729-216-22	TRANSISTOR 2SA1162-G	
Q546	8-729-901-01	TRANSISTOR DTC144EK	
Q547	8-729-216-22	TRANSISTOR 2SA1162-G	

REF. NO.	PART NO.	DESCRIPTION	REMARK
Q548	8-729-901-01	TRANSISTOR DTC144EK	
Q549	8-729-901-01	TRANSISTOR DTC144EK	
Q550	8-729-901-01	TRANSISTOR DTC144EK	
Q551	8-729-901-01	TRANSISTOR DTC144EK	
Q552	8-729-901-01	TRANSISTOR DTC144EK	
Q553	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q650	8-729-116-05	TRANSISTOR 2SK160-K5	
Q651	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q652	8-729-112-65	TRANSISTOR 2SA1462-T1Y33	
Q653	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q654	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q656	8-729-901-01	TRANSISTOR DTC144EK	
Q700	8-729-116-05	TRANSISTOR 2SK160-K5	
Q701	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q702	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q703	8-729-112-65	TRANSISTOR 2SA1462-T1Y33	
Q704	8-729-923-06	TRANSISTOR FMW-8	
Q705	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q706	8-729-112-65	TRANSISTOR 2SA1462-T1Y33	
Q707	8-729-923-06	TRANSISTOR FMW-8	
Q708	8-729-112-65	TRANSISTOR 2SA1462-T1Y33	
Q709	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q710	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q741	8-729-901-01	TRANSISTOR DTC144EK	
Q750	8-729-116-05	TRANSISTOR 2SK160-K5	
Q751	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q752	8-729-112-65	TRANSISTOR 2SA1462-T1Y33	
Q753	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q754	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q755	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q756	8-729-901-01	TRANSISTOR DTC144EK	
Q757	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q800	8-729-230-49	TRANSISTOR 2SC2712-YG	

<RESISTOR>

REF. NO.	PART NO.	DESCRIPTION			REMARK
R401	1-216-025-91	METAL GLAZE	100	5%	1/10W
R403	1-216-025-91	METAL GLAZE	100	5%	1/10W
R404	1-208-824-11	METAL CHIP	56K	0.50%	1/10W
R405	1-208-822-11	METAL CHIP	47K	0.50%	1/10W
R440	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R441	1-216-025-91	METAL GLAZE	100	5%	1/10W
R450	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R451	1-216-077-00	METAL GLAZE	15K	5%	1/10W
R452	1-216-037-00	METAL GLAZE	330	5%	1/10W
R453	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R454	1-216-041-00	METAL GLAZE	470	5%	1/10W
R455	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R456	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R459	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R460	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R461	1-216-017-91	METAL GLAZE	47	5%	1/10W
R462	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R463	1-216-025-91	METAL GLAZE	100	5%	1/10W
R464	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R466	1-216-037-00	METAL GLAZE	330	5%	1/10W
R467	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R468	1-216-025-91	METAL GLAZE	100	5%	1/10W
R469	1-216-025-91	METAL GLAZE	100	5%	1/10W
R470	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R471	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R472	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R473	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R474	1-216-025-91	METAL GLAZE	100	5%	1/10W
R501	1-216-624-11	METAL CHIP	75	0.50%	1/10W
R502	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R503	1-216-025-91	METAL GLAZE	100	5%	1/10W
R504	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R505	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R506	1-216-624-11	METAL CHIP	75	0.50%	1/10W
R507	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R508	1-216-025-91	METAL GLAZE	100	5%	1/10W
R509	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R510	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R511	1-216-077-00	METAL GLAZE	15K	5%	1/10W
R512	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R513	1-216-077-00	METAL GLAZE	15K	5%	1/10W
R514	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R516	1-216-041-00	METAL GLAZE	470	5%	1/10W
R518	1-216-025-91	METAL GLAZE	100	5%	1/10W
R519	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R520	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R521	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R522	1-216-041-00	METAL GLAZE	470	5%	1/10W
R523	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R524	1-216-041-00	METAL GLAZE	470	5%	1/10W
R525	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R526	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R527	1-216-041-00	METAL GLAZE	470	5%	1/10W
R528	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R529	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R530	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R531	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R532	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R533	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W
R534	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R535	1-216-025-91	METAL GLAZE	100	5%	1/10W
R536	1-216-025-91	METAL GLAZE	100	5%	1/10W
R537	1-216-025-91	METAL GLAZE	100	5%	1/10W
R538	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R539	1-208-774-11	METAL CHIP	470	0.50%	1/10W
R540	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R541	1-216-041-00	METAL GLAZE	470	5%	1/10W
R542	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R543	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R544	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R545	1-216-025-91	METAL GLAZE	100	5%	1/10W
R546	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R547	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R548	1-216-025-91	METAL GLAZE	100	5%	1/10W
R549	1-216-025-91	METAL GLAZE	100	5%	1/10W
R550	1-216-047-91	METAL GLAZE	820	5%	1/10W
R551	1-216-025-91	METAL GLAZE	100	5%	1/10W
R552	1-216-025-91	METAL GLAZE	100	5%	1/10W
R553	1-216-025-91	METAL GLAZE	100	5%	1/10W
R554	1-216-025-91	METAL GLAZE	100	5%	1/10W
R555	1-216-047-91	METAL GLAZE	820	5%	1/10W
R556	1-216-025-91	METAL GLAZE	100	5%	1/10W
R557	1-216-025-91	METAL GLAZE	100	5%	1/10W
R558	1-208-822-11	METAL CHIP	47K	0.50%	1/10W
R559	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R560	1-216-025-91	METAL GLAZE	100	5%	1/10W
R561	1-208-822-11	METAL CHIP	47K	0.50%	1/10W
R562	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R563	1-216-035-00	METAL GLAZE	270	5%	1/10W
R564	1-216-043-91	METAL GLAZE	560	5%	1/10W
R565	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R566	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R567	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R568	1-208-774-11	METAL CHIP	470	0.50%	1/10W
R569	1-216-295-91	CONDUCTOR, CHIP			
R570	1-216-624-11	METAL CHIP	75	0.50%	1/10W
R571	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R572	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R573	1-208-774-11	METAL CHIP	470	0.50%	1/10W
R574	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R575	1-208-774-11	METAL CHIP	470	0.50%	1/10W

REF. NO.	PART NO.	DESCRIPTION				REMARK
R576	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R577	1-216-097-91	METAL GLAZE	100K	5%	1/10W	
R578	1-216-097-91	METAL GLAZE	100K	5%	1/10W	
R579	1-216-097-91	METAL GLAZE	100K	5%	1/10W	
R580	1-216-025-91	METAL GLAZE	100	5%	1/10W	
R581	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	
R582	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R583	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R584	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R585	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R586	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R587	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R588	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R589	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R590	1-216-025-91	METAL GLAZE	100	5%	1/10W	
R591	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R592	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R593	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R594	1-216-025-91	METAL GLAZE	100	5%	1/10W	
R595	1-216-025-91	METAL GLAZE	100	5%	1/10W	
R596	1-216-025-91	METAL GLAZE	100	5%	1/10W	
R597	1-216-097-91	METAL GLAZE	100K	5%	1/10W	
R598	1-216-025-91	METAL GLAZE	100	5%	1/10W	
R599	1-216-025-91	METAL GLAZE	100	5%	1/10W	
R600	1-216-025-91	METAL GLAZE	100	5%	1/10W	
R601	1-216-631-11	METAL CHIP	150	0.50%	1/10W	
R602	1-216-631-11	METAL CHIP	150	0.50%	1/10W	
R603	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	
R604	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	
R605	1-216-025-91	METAL GLAZE	100	5%	1/10W	
R606	1-216-025-91	METAL GLAZE	100	5%	1/10W	
R607	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R608	1-216-075-00	METAL GLAZE	12K	5%	1/10W	
R609	1-216-017-91	METAL GLAZE	47	5%	1/10W	
R610	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R611	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R612	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R613	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R614	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R615	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R616	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R617	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R618	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R619	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R620	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R621	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R622	1-216-448-11	METAL OXIDE	39	5%	2W	F
R623	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R624	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R625	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R626	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R627	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R628	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R629	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R630	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R631	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R632	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R633	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R634	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R635	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R636	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R637	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R638	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R639	1-216-097-91	METAL GLAZE	100K	5%	1/10W	
R640	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R641	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	
R642	1-216-097-91	METAL GLAZE	100K	5%	1/10W	
R643	1-216-097-91	METAL GLAZE	100K	5%	1/10W	
R644	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R645	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R646	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R647	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R648	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R649	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R650	1-216-624-11	METAL CHIP	75	0.50%	1/10W	
R651	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R652	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R653	1-216-025-91	METAL GLAZE	100	5%	1/10W	
R654	1-216-121-91	METAL GLAZE	1M	5%	1/10W	
R655	1-216-627-11	METAL CHIP	100	0.50%	1/10W	
R656	1-216-627-11	METAL CHIP	100	0.50%	1/10W	
R657	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R658	1-216-025-91	METAL GLAZE	100	5%	1/10W	
R659	1-216-025-91	METAL GLAZE	100	5%	1/10W	
R660	1-216-624-11	METAL CHIP	75	0.50%	1/10W	
R661	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R663	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R664	1-216-017-91	METAL GLAZE	47	5%	1/10W	
R665	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R666	1-216-017-91	METAL GLAZE	47	5%	1/10W	
R667	1-216-017-91	METAL GLAZE	47	5%	1/10W	
R668	1-216-017-91	METAL GLAZE	47	5%	1/10W	
R686	1-216-025-91	METAL GLAZE	100	5%	1/10W	
R688	1-216-025-91	METAL GLAZE	100	5%	1/10W	
R700	1-216-624-11	METAL CHIP	75	0.50%	1/10W	
R701	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R702	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R703	1-216-025-91	METAL GLAZE	100	5%	1/10W	
R704	1-216-121-91	METAL GLAZE	1M	5%	1/10W	
R705	1-216-627-11	METAL CHIP	100	0.50%	1/10W	
R706	1-216-627-11	METAL CHIP	100	0.50%	1/10W	
R707	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R708	1-216-025-91	METAL GLAZE	100	5%	1/10W	
R709	1-216-017-91	METAL GLAZE	47	5%	1/10W	
R710	1-216-627-11	METAL CHIP	100	0.50%	1/10W	
R711	1-216-025-91	METAL GLAZE	100	5%	1/10W	
R712	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R713	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
R714	1-216-025-91	METAL GLAZE	100	5%	1/10W	
R715	1-216-627-11	METAL CHIP	100	0.50%	1/10W	
R716	1-216-627-11	METAL CHIP	100	0.50%	1/10W	
R717	1-216-025-91	METAL GLAZE	100	5%	1/10W	
R718	1-216-017-91	METAL GLAZE	47	5%	1/10W	
R719	1-216-627-11	METAL CHIP	100	0.50%	1/10W	
R720	1-216-063-91	METAL GLAZE	3.9K	5%	1/10W	
R721	1-216-627-11	METAL CHIP	100	0.50%	1/10W	
R722	1-216-025-91	METAL GLAZE	100	5%	1/10W	
R723	1-216-025-91	METAL GLAZE	100	5%	1/10W	
R724	1-216-624-11	METAL CHIP	75	0.50%	1/10W	
R725	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R727	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R728	1-216-017-91	METAL GLAZE	47	5%	1/10W	
R729	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R750	1-216-624-11	METAL CHIP	75	0.50%	1/10W	
R751	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R752	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R753	1-216-025-91	METAL GLAZE	100	5%	1/10W	
R755	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R756	1-216-121-91	METAL GLAZE	1M	5%	1/10W	
R757	1-216-627-11	METAL CHIP	100	0.50%	1/10W	
R758	1-216-627-11	METAL CHIP	100	0.50%	1/10W	
R759	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R760	1-216-665-11	METAL CHIP	3.9K	0.50%	1/10W	
R761	1-208-774-11	METAL CHIP	470	0.50%	1/10W	
R762	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	
R763	1-216-025-91	METAL GLAZE	100	5%	1/10W	
R764	1-216-025-91	METAL GLAZE	100	5%	1/10W	

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The componants identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION			REMARK
R765	1-216-624-11	METAL CHIP	75	0.50%	1/10W
R766	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R768	1-216-001-00	METAL GLAZE	10	5%	1/10W
R769	1-216-017-91	METAL GLAZE	47	5%	1/10W
R770	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R791	1-216-041-00	METAL GLAZE	470	5%	1/10W
R836	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R837	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R900	1-216-049-91	METAL GLAZE	1K	5%	1/10W

<RELAY>

REF. NO.	PART NO.	DESCRIPTION
RL401	1-515-757-11	RELAY
RL402	1-515-757-11	RELAY
RL403	1-515-757-11	RELAY

<TERMINAL BOARD>

REF. NO.	PART NO.	DESCRIPTION
TB102	1-537-257-11	TERMINAL BOARD, INPUT/OUTPUT
TB501	1-537-956-11	TERMINAL BOARD ASSY, I/O

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* A-1195-081-A PA BOARD, COMPLETE
****

4-382-854-11 SCREW (M3X10), P, SW (+)

<CAPACITOR>

REF. NO.	PART NO.	DESCRIPTION			REMARK
C1	1-124-903-11	ELECT	1MF	20%	50V
C2	1-124-903-11	ELECT	1MF	20%	50V
C3	1-126-963-11	ELECT	4.7MF	20%	50V
C4	1-126-963-11	ELECT	4.7MF	20%	50V
C5	1-126-963-11	ELECT	4.7MF	20%	50V
C6	1-126-963-11	ELECT	4.7MF	20%	50V
C7	1-124-907-11	ELECT	10MF	20%	50V
C8	1-130-471-00	FILM	0.001MF	5%	50V
C9	1-104-663-11	ELECT	33MF	20%	16V
C10	1-126-961-11	ELECT	2.2MF	20%	50V
C11	1-136-165-00	FILM	0.1MF	5%	50V
C12	1-124-907-11	ELECT	10MF	20%	50V
C13	1-136-169-00	FILM	0.22MF	5%	50V
C14	1-124-907-11	ELECT	10MF	20%	50V
C15	1-124-119-00	ELECT	330MF	20%	16V
C16	1-102-973-00	CERAMIC	100PF	5%	50V
C17	1-136-165-00	FILM	0.1MF	5%	50V
C18	1-136-165-00	FILM	0.1MF	5%	50V
C19	1-136-165-00	FILM	0.1MF	5%	50V
C20	1-136-165-00	FILM	0.1MF	5%	50V
C21	1-101-004-00	CERAMIC	0.01MF		50V
C22	1-102-973-00	CERAMIC	100PF	5%	50V
C23	1-124-907-11	ELECT	10MF	20%	50V
C24	1-124-907-11	ELECT	10MF	20%	50V
C25	1-136-169-00	FILM	0.22MF	5%	50V
C26	1-102-978-00	CERAMIC	220PF	5%	50V
C27	1-124-907-11	ELECT	10MF	20%	50V
C28	1-124-907-11	ELECT	10MF	20%	50V
C29	1-124-907-11	ELECT	10MF	20%	50V
C30	1-101-004-00	CERAMIC	0.01MF		50V
C31	1-101-004-00	CERAMIC	0.01MF		50V
C32	1-102-973-00	CERAMIC	100PF	5%	50V
C33	1-102-973-00	CERAMIC	100PF	5%	50V
C34	1-102-973-00	CERAMIC	100PF	5%	50V
C35	1-124-119-00	ELECT	330MF	20%	16V
C36	1-137-364-11	FILM	0.001MF	5%	50V
C37	1-104-999-11	MYLAR	0.1MF	10%	200V
C38	1-124-903-11	ELECT	1MF	20%	50V
C39	1-124-903-11	ELECT	1MF	20%	50V
C40	1-137-366-11	FILM	0.0022MF	5%	50V
C41	1-126-600-11	ELECT	100MF	20%	160V
C42	⚠1-136-722-11	FILM	0.008MF	3%	1.6KV
C43	1-136-561-11	FILM	0.0068MF	10%	630V
C45	1-137-364-11	FILM	0.001MF	5%	50V
C46	1-104-665-11	ELECT	100MF	20%	16V
C47	1-124-903-11	ELECT	1MF	20%	50V
C49	1-136-561-11	FILM	0.0068MF	10%	630V
C50	1-137-364-11	FILM	0.001MF	5%	50V
C51	1-126-600-11	ELECT	100MF	20%	160V
C52	1-126-600-11	ELECT	100MF	20%	160V
C53	1-102-030-00	CERAMIC	330PF	10%	500V
C54	⚠1-136-729-11	FILM	1.5MF	5%	400V
C55	1-124-903-11	ELECT	1MF	20%	50V
C56	1-108-692-11	MYLAR	0.01MF	10%	200V
C57	1-104-999-11	MYLAR	0.1MF	10%	200V
C58	1-104-664-11	ELECT	47MF	20%	16V
C59	1-136-165-00	FILM	0.1MF	5%	50V
C60	1-101-004-00	CERAMIC	0.01MF		50V
C61	1-101-004-00	CERAMIC	0.01MF		50V
C62	1-136-165-00	FILM	0.1MF	5%	50V
C63	1-136-165-00	FILM	0.1MF	5%	50V
C65	1-136-103-00	FILM	0.1MF	5%	200V
C67	1-101-004-00	CERAMIC	0.01MF		50V
C68	1-101-004-00	CERAMIC	0.01MF		50V
C70	1-101-004-00	CERAMIC	0.01MF		50V
C71	1-102-973-00	CERAMIC	100PF	5%	50V
C72	1-102-973-00	CERAMIC	100PF	5%	50V
C73	1-104-665-11	ELECT	100MF	20%	16V
C74	1-124-478-11	ELECT	100MF	20%	25V
C75	1-124-563-11	ELECT	2200MF	20%	25V
C78	1-126-965-11	ELECT	22MF	20%	50V
C80	1-124-907-11	ELECT	10MF	20%	50V
C81	1-102-973-00	CERAMIC	100PF	5%	50V

<LEAD PIN>

REF. NO.	PART NO.	DESCRIPTION
CLP1	4-352-844-01	PIN, LEAD, COATING
CLP2	4-352-844-01	PIN, LEAD, COATING

<CONNECTOR>

REF. NO.	PART NO.	DESCRIPTION
CN281	*1-564-518-11	PLUG, CONNECTOR 3P
CN282	*1-564-520-11	PLUG, CONNECTOR 5P
CN283	*1-564-526-11	PLUG, CONNECTOR 11P
CN284	*1-564-528-11	PLUG, CONNECTOR 13P
CN285	1-564-523-11	PLUG, CONNECTOR 8P
CN286	*1-506-348-99	PIN, CONNECTOR 6P
CN287	*1-564-521-11	PLUG, CONNECTOR 6P
CN288	*1-564-518-11	PLUG, CONNECTOR 3P
CN289	1-508-765-00	PIN, CONNECTOR (5mm PITCH) 3P
CN290	1-506-348-99	PIN, CONNECTOR 4P
CN296	1-564-517-11	PLUG, CONNECTOR 2P

<DIODE>

REF. NO.	PART NO.	DESCRIPTION
D1	8-719-911-19	DIODE 1SS119-25
D2	8-719-911-19	DIODE 1SS119-25
D3	8-719-911-19	DIODE 1SS119-25
D4	8-719-911-19	DIODE 1SS119-25
D5	8-719-109-85	DIODE RD5.1ESB2
D6	8-719-911-19	DIODE 1SS119-25
D7	8-719-110-41	DIODE RD15ESB2
D8	8-719-110-36	DIODE RD13ESB2
D9	8-719-911-19	DIODE 1SS119-25
D10	8-719-109-85	DIODE RD5.1ESB2
D11	8-719-109-66	DIODE RD3.3ESB2

The componants identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

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PA

REF. NO.	PART NO.	DESCRIPTION	REMARK
D12	8-719-109-85	DIODE RD5.1ESB2	
D13	8-719-911-19	DIODE 1SS119-25	
D14	8-719-911-19	DIODE 1SS119-25	
D15	8-719-911-19	DIODE 1SS119-25	
D16	8-719-110-36	DIODE RD13ESB2	
D17	8-719-945-81	DIODE ERC06-15SA	
D18	8-719-911-19	DIODE 1SS119-25	
D19	8-719-945-81	DIODE ERC06-15SA	
D20	8-719-911-19	DIODE 1SS119-25	
D21	8-719-911-19	DIODE 1SS119-25	
D22	8-719-110-36	DIODE RD13ESB2	
D23	8-719-920-67	DIODE ERC91-02	
D24	8-719-911-19	DIODE 1SS119-25	
D25	8-719-911-19	DIODE 1SS119-25	
D26	8-719-920-67	DIODE ERC91-02	
D27	8-719-911-19	DIODE 1SS119-25	
D28	8-719-911-19	DIODE 1SS119-25	
D29	8-719-911-19	DIODE 1SS119-25	
D30	8-719-110-78	DIODE RD33ESB2	
D31	8-719-911-19	DIODE 1SS119-25	
D32	8-719-900-95	DIODE V09G	
D33	8-719-911-19	DIODE 1SS119-25	
D34	8-719-920-67	DIODE ERC91-02	
D35	8-719-911-19	DIODE 1SS119-25	
D36	8-719-110-36	DIODE RD13ESB2	
D37	8-719-911-19	DIODE 1SS119-25	

<FERRITE BEAD>

REF. NO.	PART NO.	DESCRIPTION	REMARK
FB1	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
FB2	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
FB3	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	

<IC>

REF. NO.	PART NO.	DESCRIPTION	REMARK
IC1	8-759-503-91	IC TL082ACP	
	7-322-065-19	RUBBER, SILICON RTV (KE490W) ; IC1	
IC5	8-759-231-58	IC TA7812S	
IC6	8-759-929-65	IC LM7912CT	
IC7	8-759-240-40	IC TC4040BP	
IC8	8-759-045-72	IC MC14572UBCP	
IC9	8-759-140-11	IC uPD4011BC	
IC10	8-759-040-01	IC MC14001BCP	
IC11	8-759-503-91	IC TL082ACP	
IC13	8-759-908-15	IC TL431CLP	
IC14	8-759-145-58	IC uPC4558C	

<COIL>

REF. NO.	PART NO.	DESCRIPTION	REMARK
L1	1-409-543-11	COIL, CHOKE 420UH	
L2	1-409-543-11	COIL, CHOKE 420UH	
L3	1-459-614-11	COIL, CHOKE 90UH	
L4	1-459-614-11	COIL, CHOKE 90UH	
L5	1-459-155-00	COIL (WITH CORE) 45UH	
L6	1-459-155-00	COIL (WITH CORE) 45UH	
L7	1-412-525-31	INDUCTOR 10UH	
L8	1-412-525-31	INDUCTOR 10UH	

<NEON LAMP>

REF. NO.	PART NO.	DESCRIPTION	REMARK
NL1	1-519-108-99	LAMP, NEON	

<TRANSISTOR>

REF. NO.	PART NO.	DESCRIPTION	REMARK
Q1	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q2	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q3	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q4	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q5	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q6	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q7	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q8	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q9	8-729-140-96	TRANSISTOR 2SD774-34	
Q10	8-729-140-97	TRANSISTOR 2SB734-34	
Q11	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q12	8-729-900-65	TRANSISTOR DTA144ES	
Q13	8-729-900-89	TRANSISTOR DTC144ES	
Q15	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q16	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q17	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q18	8-729-804-48	TRANSISTOR 2SC3675	
Q19	8-729-024-38	TRANSISTOR IRFIP250	
Q20	8-729-143-42	TRANSISTOR 2SK929	
Q21	8-729-207-89	TRANSISTOR 2SA1358-Y	
Q22	8-729-119-80	TRANSISTOR 2SC2688-LK	

<RESISTOR>

REF. NO.	PART NO.	DESCRIPTION			REMARK
⧓R1	⚠	METAL			1/4W
R2	1-247-863-91	CARBON	22K	5%	1/4W
R3	1-249-439-11	CARBON	68K	5%	1/4W
⧓R4	⚠	METAL			1/4W
R5	1-247-863-91	CARBON	22K	5%	1/4W
R6	1-249-439-11	CARBON	68K	5%	1/4W
R7	1-247-863-91	CARBON	22K	5%	1/4W
R8	1-247-863-91	CARBON	22K	5%	1/4W
R9	1-247-843-11	CARBON	3.3K	5%	1/4W
R10	1-249-429-11	CARBON	10K	5%	1/4W
R12	1-249-429-11	CARBON	10K	5%	1/4W
R13	1-249-429-11	CARBON	10K	5%	1/4W
R14	1-249-429-11	CARBON	10K	5%	1/4W
R15	1-247-863-91	CARBON	22K	5%	1/4W
R16	1-249-425-11	CARBON	4.7K	5%	1/4W
R17	1-247-807-31	CARBON	100	5%	1/4W
R18	1-249-429-11	CARBON	10K	5%	1/4W
R19	1-249-429-11	CARBON	10K	5%	1/4W
R20	1-247-863-91	CARBON	22K	5%	1/4W
R21	1-249-441-11	CARBON	100K	5%	1/4W
R22	1-215-463-00	METAL	56K	1%	1/4W
R23	1-215-455-00	METAL	27K	1%	1/4W
R24	1-249-429-11	CARBON	10K	5%	1/4W
R26	1-249-417-11	CARBON	1K	5%	1/4W
R27	1-249-429-11	CARBON	10K	5%	1/4W
R28	1-215-423-00	METAL	1.2K	1%	1/4W
⧓R29	⚠	METAL			1/4W
⧓R30	⚠	METAL			1/4W
R31	1-249-436-11	CARBON	39K	5%	1/4W
R32	1-215-473-00	METAL	150K	1%	1/4W
⧓R33	⚠	METAL			1/4W
⧓R34	⚠	METAL			1/4W
R35	1-249-417-11	CARBON	1K	5%	1/4W
R36	1-247-843-11	CARBON	3.3K	5%	1/4W
R37	1-249-429-11	CARBON	10K	5%	1/4W
R38	1-249-429-11	CARBON	10K	5%	1/4W
R39	1-249-429-11	CARBON	10K	5%	1/4W
R41	1-249-431-11	CARBON	15K	5%	1/4W
R42	1-249-417-11	CARBON	1K	5%	1/4W
R43	1-215-461-00	METAL	47K	1%	1/4W
R44	1-215-432-00	METAL	3K	1%	1/4W
R45	1-215-432-00	METAL	3K	1%	1/4W
R46	1-215-432-00	METAL	3K	1%	1/4W
R47	1-215-432-00	METAL	3K	1%	1/4W
R48	1-249-417-11	CARBON	1K	5%	1/4W
R49	1-249-417-11	CARBON	1K	5%	1/4W
R50	1-249-429-11	CARBON	10K	5%	1/4W
R51	1-247-843-11	CARBON	3.3K	5%	1/4W
R52	1-247-843-11	CARBON	3.3K	5%	1/4W
R53	1-249-417-11	CARBON	1K	5%	1/4W

PA DM

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REF. NO.	PART NO.	DESCRIPTION			REMARK	
R54	1-249-417-11	CARBON	1K	5%	1/4W	
R55	1-247-843-11	CARBON	3.3K	5%	1/4W	
R56	1-247-895-91	CARBON	470K	5%	1/4W	
R57	1-249-417-11	CARBON	1K	5%	1/4W	
R58	1-249-437-11	CARBON	47K	5%	1/4W	
R59	1-247-903-00	CARBON	1M	5%	1/4W	
R61	1-249-417-11	CARBON	1K	5%	1/4W	
R62	1-247-807-31	CARBON	100	5%	1/4W	
R63	1-249-411-11	CARBON	330	5%	1/4W	
R64	1-215-456-00	METAL	30K	1%	1/4W	
R65	1-215-445-00	METAL	10K	1%	1/4W	
R66	1-215-445-00	METAL	10K	1%	1/4W	
R67	1-247-903-00	CARBON	1M	5%	1/4W	
R68	1-249-417-11	CARBON	1K	5%	1/4W	
R69	1-215-455-00	METAL	27K	1%	1/4W	
R71	1-249-429-11	CARBON	10K	5%	1/4W	
R72	1-247-807-31	CARBON	100	5%	1/4W	
R73	1-247-843-11	CARBON	3.3K	5%	1/4W	
R74	1-249-417-11	CARBON	1K	5%	1/4W	
R75	1-247-807-31	CARBON	100	5%	1/4W	
R76	1-247-807-31	CARBON	100	5%	1/4W	
R77	1-249-937-11	CARBON	3.9K	5%	1/4W	F
R78	1-249-431-11	CARBON	15K	5%	1/4W	
R79	1-249-431-11	CARBON	15K	5%	1/4W	
R80	1-249-417-11	CARBON	1K	5%	1/4W	
R81	1-249-441-11	CARBON	100K	5%	1/4W	
R82	1-249-441-11	CARBON	100K	5%	1/4W	
R83	1-249-422-11	CARBON	2.7K	5%	1/4W	
R84	1-249-431-11	CARBON	15K	5%	1/4W	
R85	1-215-892-11	METAL OXIDE	1K	5%	2W	F
R86	1-215-921-11	METAL OXIDE	4.7K	5%	3W	F
R88	1-249-441-11	CARBON	100K	5%	1/4W	
R89	1-215-905-11	METAL OXIDE	10	5%	3W	F
R90	1-215-895-11	METAL OXIDE	3.3K	5%	2W	F
R91	1-215-895-11	METAL OXIDE	3.3K	5%	2W	F
R92	1-215-870-11	METAL OXIDE	1.5K	5%	1W	F
R93	1-215-895-11	METAL OXIDE	3.3K	5%	2W	F
R94	1-215-863-11	METAL OXIDE	100	5%	1W	F
R95	1-215-461-00	METAL	47K	1%	1/4W	
R96	1-249-437-11	CARBON	47K	5%	1/4W	
R97	1-247-863-91	CARBON	22K	5%	1/4W	
R98	1-215-863-11	METAL OXIDE	100	5%	1W	F
R99	1-247-725-11	CARBON	10K	5%	1/4W	F
R101	1-247-807-31	CARBON	100	5%	1/4W	
R102	1-249-441-11	CARBON	100K	5%	1/4W	
R103	1-249-417-11	CARBON	1K	5%	1/4W	
R104	1-249-441-11	CARBON	100K	5%	1/4W	
R105	1-249-429-11	CARBON	10K	5%	1/4W	
R106	1-249-425-11	CARBON	4.7K	5%	1/4W	
R107	1-247-863-91	CARBON	22K	5%	1/4W	
R108	1-249-441-11	CARBON	100K	5%	1/4W	
R109	1-249-437-11	CARBON	47K	5%	1/4W	
R110	1-249-441-11	CARBON	100K	5%	1/4W	
R111	1-249-437-11	CARBON	47K	5%	1/4W	
R116	1-215-477-00	METAL	220K	1%	1/4W	
R117	1-247-725-11	CARBON	10K	5%	1/4W	F
R118	1-202-726-00	SOLID	3.9M	20%	1/2W	
R121	1-215-475-00	METAL	180K	1%	1/4W	
R122	1-215-475-00	METAL	180K	1%	1/4W	
R124	1-249-425-11	CARBON	4.7K	5%	1/4W	
R125	1-247-807-31	CARBON	100	5%	1/4W	
R126	1-249-429-11	CARBON	10K	5%	1/4W	
R127	1-247-807-31	CARBON	100	5%	1/4W	
R128	1-247-807-31	CARBON	100	5%	1/4W	
⊠R131	⚠	METAL			1/4W	
⊠R132	⚠	METAL			1/4W	
R133	1-215-905-11	METAL OXIDE	10	5%	3W	F
R134	1-215-905-11	METAL OXIDE	10	5%	3W	F

REF. NO.	PART NO.	DESCRIPTION			REMARK	
R135	1-215-905-11	METAL OXIDE	10	5%	3W	F
R136	1-202-726-00	SOLID	3.9M	20%	1/2W	
R137	1-249-401-11	CARBON	47	5%	1/4W	F
R138	1-249-417-11	CARBON	1K	5%	1/4W	
R139	1-247-807-31	CARBON	100	5%	1/4W	
R140	1-247-807-31	CARBON	100	5%	1/4W	
R141	1-247-807-31	CARBON	100	5%	1/4W	
R142	1-249-417-11	CARBON	1K	5%	1/4W	
R143	1-215-432-00	METAL	3K	1%	1/4W	
R144	1-215-432-00	METAL	3K	1%	1/4W	
R150	1-247-863-91	CARBON	22K	5%	1/4W	
R151	1-215-421-00	METAL	1K	1%	1/4W	
R152	1-215-445-00	METAL	10K	1%	1/4W	
R153	1-249-417-11	CARBON	1K	5%	1/4W	
R154	1-249-417-11	CARBON	1K	5%	1/4W	
R155	1-247-807-31	CARBON	100	5%	1/4W	

<TRANSFORMER>

T1	1-437-144-11	TRANSFORMER, FERRITE (HDT)

<CRYSTAL>

X1	1-578-768-11	VIBLATOR, CERAMIC

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***1-639-936-11 DM BOARD**

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	1-506-348-99	PIN, CONNECTOR 4P
	*1-506-348-99	PIN, CONNECTOR 6P
	1-506-348-99	PIN, CONNECTOR 3P
	1-506-348-99	PIN, CONNECOTR 5P
	1-508-742-00	PIN, CONNECTOR 3P
	*1-564-505-11	PLUG, CONNECTOR 2P
	*1-564-507-11	PLUG, CONNECTOR 4P
	*1-564-508-11	PLUG, CONNECTOR 5P
	*1-564-509-11	PLUG, CONNECTOR 6P
	*1-564-514-11	PLUG, CONNECTOR 11P
	*1-564-515-11	PLUG, CONNECTOR 12P
	*1-564-516-11	PLUG, CONNECTOR 13P
	*1-568-985-11	CONNECTOR, FEMALE 64P

<CAPACITOR>

C1	1-126-942-61	ELECT	1000MF	20%	25V

<CONNECTOR>

DM2	*1-568-982-11	CONNECTOR, FEMALE 96P
DM3	*1-568-982-11	CONNECTOR, FEMALE 96P
DM4	*1-568-982-11	CONNECTOR, FEMALE 96P
DM5	*1-568-982-11	CONNECTOR, FEMALE 96P
DM31	*1-564-514-11	PLUG, CONNECTOR 11P
DM33	*1-568-982-11	CONNECTOR, FEMALE 96P
DM40	*1-564-512-11	PLUG, CONNECTOR 9P

<RESISTOR>

R1	1-215-908-00	METAL OXIDE	33	5%	3W	F
R3	1-216-483-11	METAL OXIDE	2.7K	5%	3W	F
R4	1-216-483-11	METAL OXIDE	2.7K	5%	3W	F
R5	1-216-475-11	METAL OXIDE	120	5%	3W	F

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REF. NO.	PART NO.	DESCRIPTION			REMARK
	*A-1346-190-A	E BOARD, COMPLETE **********************			
	1-508-742-00	PIN, CONNECTOR 3P			
	1-508-786-00	PIN, CONNECTOR (5mm PITCH) 2P			
	*1-564-509-11	PLUG, CONNECTOR 6P			
	*1-564-514-11	PLUG, CONNECTOR 11P			
	*1-564-516-11	PLUG, CONNECTOR 13P			
	*1-580-798-11	CONNECTOR PIN (DY) 6P			
	4-382-854-11	SCREW (M3X10), P, SW (+)			

<CAPACITOR>

REF. NO.	PART NO.	DESCRIPTION			REMARK
C1	1-126-899-11	ELECT	3900MF	20%	16V
C2	1-126-899-11	ELECT	3900MF	20%	16V
C3	1-126-899-11	ELECT	3900MF	20%	16V
C4	1-102-824-00	CERAMIC	470PF	5%	50V
C5	1-136-153-00	FILM	0.01MF	5%	50V
C6	1-102-824-00	CERAMIC	470PF	5%	50V
C7	1-102-824-00	CERAMIC	470PF	5%	50V
C8	1-136-153-00	FILM	0.01MF	5%	50V
C9	1-102-824-00	CERAMIC	470PF	5%	50V
C10	1-136-153-00	FILM	0.01MF	5%	50V
C11	1-102-824-00	CERAMIC	470PF	5%	50V
C12	1-102-824-00	CERAMIC	470PF	5%	50V
C13	1-130-908-00	FILM	0.0039MF	3%	1.6KV
C14	1-130-908-00	FILM	0.0039MF	3%	1.6KV
C15	1-124-585-11	ELECT	3300MF	20%	10V
C16	1-124-585-11	ELECT	3300MF	20%	10V
C17	1-123-935-00	ELECT	33MF	20%	160V
C18	1-129-996-00	FILM	0.22MF	20%	630V
C19	1-124-585-11	ELECT	3300MF	20%	10V
C21	1-136-945-11	FILM	8.2MF	5%	200V
C22	1-136-945-11	FILM	8.2MF	5%	200V
C23	1-136-945-11	FILM	8.2MF	5%	200V
C24	1-136-945-11	FILM	8.2MF	5%	200V
C30	1-136-613-11	FILM	0.0068MF	3%	2KV
C31	1-104-999-11	MYLAR	0.1MF	10%	200V
C32	1-124-907-11	ELECT	10MF	20%	50V
C35	1-102-244-00	CERAMIC	220PF	10%	500V
C36	1-164-747-11	CERAMIC	330PF	15%	1.5KV
C37	1-164-747-11	CERAMIC	330PF	15%	1.5KV
C38	1-164-747-11	CERAMIC	330PF	15%	1.5KV
C101	1-102-973-00	CERAMIC	100PF	5%	50V
C102	1-136-159-00	FILM	0.033MF	5%	50V
C104	1-136-165-00	FILM	0.1MF	5%	50V
C105	1-136-165-00	FILM	0.1MF	5%	50V
C106	1-104-665-11	ELECT	100MF	20%	16V
C109	1-124-903-11	ELECT	1MF	20%	50V
C110	1-104-665-11	ELECT	100MF	20%	16V
C111	1-104-665-11	ELECT	100MF	20%	16V
C112	1-104-665-11	ELECT	100MF	20%	16V
C113	1-126-965-11	ELECT	22MF	20%	50V
C114	1-109-889-11	ELECT	1MF	20%	50V
C115	1-136-153-00	FILM	0.01MF	5%	50V
C116	1-137-366-11	FILM	0.0022MF	5%	50V
C117	1-102-973-00	CERAMIC	100PF	5%	50V
C118	1-136-165-00	FILM	0.1MF	5%	50V
C119	1-104-665-11	ELECT	100MF	20%	16V
C120	1-123-939-00	ELECT	10MF	20%	200V
C121	1-136-159-00	FILM	0.033MF	5%	50V
C122	1-123-024-21	ELECT	33MF		160V
C123	1-123-024-21	ELECT	33MF		160V
C124	1-125-499-11	ELECT(BLOCK)	220MF	20%	200V
C125	1-136-153-00	FILM	0.01MF	5%	50V
C126	1-137-364-11	FILM	0.001MF	5%	50V
C128	1-123-939-00	ELECT	10MF	20%	200V
C129	1-123-939-00	ELECT	10MF	20%	200V
C130	1-124-120-11	ELECT	220MF	20%	16V
C131	1-124-120-11	ELECT	220MF	20%	16V

REF. NO.	PART NO.	DESCRIPTION			REMARK
C132	1-123-024-21	ELECT	33MF		160V
C133	1-109-889-11	ELECT	1MF	20%	50V
C134	1-124-478-11	ELECT	100MF	20%	25V
C135	1-124-478-11	ELECT	100MF	20%	25V
C136	1-124-907-11	ELECT	10MF	20%	50V
C137	1-102-973-00	CERAMIC	100PF	5%	50V
C138	1-124-907-11	ELECT	10MF	20%	50V
C139	1-126-942-61	ELECT	1000MF	20%	25V
C140	1-136-169-00	FILM	0.22MF	5%	50V
C141	1-137-364-11	FILM	0.001MF	5%	50V
C142	1-125-499-11	ELECT(BLOCK)	220MF	20%	200V
C143	1-102-824-00	CERAMIC	470PF	5%	50V
C144	1-136-165-00	FILM	0.1MF	5%	50V
C145	1-136-153-00	FILM	0.01MF	5%	50V
C146	1-136-173-00	FILM	0.47MF	5%	50V
C147	1-136-173-00	FILM	0.47MF	5%	50V
C148	1-104-665-11	ELECT	100MF	20%	16V
C149	1-124-907-11	ELECT	10MF	20%	50V
C150	1-137-364-11	FILM	0.001MF	5%	50V
C151	1-124-903-11	ELECT	1MF	20%	50V
C152	1-136-165-00	FILM	0.1MF	5%	50V
C153	1-104-663-11	ELECT	33MF	20%	16V
C154	1-136-165-00	FILM	0.1MF	5%	50V
C155	1-136-153-00	FILM	0.01MF	5%	50V
C156	1-136-165-00	FILM	0.1MF	5%	50V
C157	1-136-157-00	FILM	0.022MF	5%	50V
C158	1-128-475-11	ELECT	10MF		160V
C159	1-124-808-51	ELECT	10MF	20%	200V
C160	1-136-111-00	FILM	1MF	5%	200V
C161	1-124-903-11	ELECT	1MF	20%	50V
C162	1-136-111-00	FILM	1MF	5%	200V
C163	1-124-907-11	ELECT	10MF	20%	50V
C164	1-124-907-11	ELECT	10MF	20%	50V
C165	1-124-907-11	ELECT	10MF	20%	50V
C166	1-124-907-11	ELECT	10MF	20%	50V
C167	1-102-824-00	CERAMIC	470PF	5%	50V
C168	1-136-153-00	FILM	0.01MF	5%	50V
C169	1-107-721-11	ELECT	4.7MF	20%	50V
C170	1-104-663-11	ELECT	33MF	20%	16V
C171	1-136-165-00	FILM	0.1MF	5%	50V
C172	1-124-907-11	ELECT	10MF	20%	50V
C173	1-104-663-11	ELECT	33MF	20%	16V
C174	1-104-663-11	ELECT	33MF	20%	16V
C175	1-130-706-00	FILM	0.008MF	3%	1.6KV
C176	1-104-999-11	MYLAR	0.1MF	10%	200V
C177	1-124-907-11	ELECT	10MF	20%	50V
C178	1-101-004-00	CERAMIC	0.01MF		50V
C180	1-136-165-00	FILM	0.1MF	5%	50V
	7-322-065-19	RUBBER, SILICON RTV (KE490W) ; C180			

<DIODE>

REF. NO.	PART NO.	DESCRIPTION	REMARK
D1	8-719-970-89	DIODE DD50R	
D7	8-719-908-20	DIODE ERC88-009	
D8	8-719-908-20	DIODE ERC88-009	
D9	8-719-979-58	DIODE EGP10D	
D10	8-719-979-58	DIODE EGP10D	
D11	8-719-901-19	DIODE V11N	
D12	8-719-979-58	DIODE EGP10D	
D13	8-719-945-81	DIODE ERC06-15SA	
D14	8-719-900-95	DIODE V09G	
D15	8-719-933-02	DIODE ERD33-02	
D103	8-719-911-19	DIODE 1SS119-25	
D104	8-719-911-19	DIODE 1SS119-25	
D105	8-719-948-45	DIODE ERA22-08	
D106	8-719-948-45	DIODE ERA22-08	
D107	8-719-911-19	DIODE 1SS119-25	
D109	8-719-948-45	DIODE ERA22-08	
D110	8-719-911-19	DIODE 1SS119-25	

E

REF. NO.	PART NO.	DESCRIPTION	REMARK
D111	8-719-911-19	DIODE 1SS119-25	
D112	8-719-900-26	DIODE ERD29-08J	
D113	8-719-911-19	DIODE 1SS119-25	
D114	8-719-110-53	DIODE RD20ESB2	
D115	8-719-110-53	DIODE RD20ESB2	
D116	8-719-920-67	DIODE ERC91-02	
D117	8-719-911-19	DIODE 1SS119-25	
D118	8-719-948-45	DIODE ERA22-08	
D119	8-719-911-19	DIODE 1SS119-25	
D120	8-719-911-19	DIODE 1SS119-25	
D121	8-719-911-19	DIODE 1SS119-25	
D122	8-719-911-19	DIODE 1SS119-25	
D123	8-719-911-19	DIODE 1SS119-25	
D124	8-719-948-45	DIODE ERA22-08	
D126	8-719-110-88	DIODE RD39ESB2	
D127	8-719-110-41	DIODE RD15ESB2	
D128	8-719-110-41	DIODE RD15ESB2	
D129	8-719-110-41	DIODE RD15ESB2	
D130	8-719-110-41	DIODE RD15ESB2	
D131	8-719-911-19	DIODE 1SS119-25	
D132	8-719-911-19	DIODE 1SS119-25	
D133	8-719-911-19	DIODE 1SS119-25	
D134	8-719-300-80	DIODE RU-1C	
D135	8-719-300-80	DIODE RU-1C	
D136	8-719-300-80	DIODE RU-1C	
D137	8-719-300-80	DIODE RU-1C	
D138	8-719-911-19	DIODE 1SS119-25	
D139	8-719-911-19	DIODE 1SS119-25	
D140	8-719-911-19	DIODE 1SS119-25	
D141	8-719-911-19	DIODE 1SS119-25	
D142	8-719-911-19	DIODE 1SS119-25	
D143	8-719-911-19	DIODE 1SS119-25	
D144	8-719-901-19	DIODE V11N	
D145	8-719-911-19	DIODE 1SS119-25	
D146	8-719-948-45	DIODE ERA22-08	
D149	8-719-911-19	DIODE 1SS119-25	
		<CONNECTOR PLUG>	
E14	1-564-505-11	PLUG, CONNECTOR 2P	
		<FERRITE BEAD>	
FB1	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
FB2	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
FB3	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
FB4	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
FB5	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
FB6	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
FB7	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
		<IC>	
IC1	8-759-145-58	IC uPC4558C	
IC2	8-759-145-58	IC uPC4558C	
IC3	8-759-145-58	IC uPC4558C	
IC101	8-759-345-38	IC HD14538BP	
IC103	8-759-109-82	IC uPC814C	
IC104	8-759-145-58	IC uPC4558C	
IC105	8-759-145-58	IC uPC4558C	
IC106	8-759-145-58	IC uPC4558C	
IC107	8-759-433-43	IC MC1495BP	
IC108	8-759-145-58	IC uPC4558C	
IC109	8-759-231-58	IC TA7812S	
IC110	8-759-929-65	IC LM7912CT	
IC111	8-759-100-75	IC uPC1394C	
IC112	8-759-145-58	IC uPC4558C	
IC115	8-759-145-58	IC uPC4558C	

REF. NO.	PART NO.	DESCRIPTION	REMARK
		<COIL>	
L100	1-459-483-00	COIL (WITH CORE)	
L102	1-459-155-00	COIL (WITH CORE) 45UH	
L103	1-459-155-00	COIL (WITH CORE) 45UH	
L104	1-459-155-00	COIL (WITH CORE) 45UH	
L106	1-459-483-00	COIL (WITH CORE)	
L107	1-410-093-11	INDUCTOR 33mH	
L108	1-410-093-11	INDUCTOR 33mH	
L109	1-459-104-00	COIL, DUST CORE	
L110	1-459-104-00	COIL, DUST CORE	
L111	1-410-093-11	INDUCTOR 33mH	
L112	1-460-022-11	COIL, CHOKE 1.3mH	
L113	1-410-680-31	INDUCTOR 330UH	
L114	1-410-686-11	INDUCTOR 1mH	
L115	1-407-500-00	INDUCTOR 4.7mH	
		<VARIABLE COIL>	
LV1	1-460-019-11	COIL, HORIZONTAL ADJUSTMENT	
LV2	1-460-019-11	COIL, HORIZONTAL ADJUSTMENT	
LV3	1-460-019-11	COIL, HORIZONTAL ADJUSTMENT	
		<TRANSISTOR>	
Q1	8-729-142-69	TRANSISTOR 2SK817	
Q2	8-729-142-68	TRANSISTOR 2SJ143	
Q3	8-729-142-69	TRANSISTOR 2SK817	
Q4	8-729-142-68	TRANSISTOR 2SJ143	
Q5	8-729-142-69	TRANSISTOR 2SK817	
Q6	8-729-142-68	TRANSISTOR 2SJ143	
Q7	8-729-820-71	TRANSISTOR 2SC3998CA	
Q21	8-729-802-07	TRANSISTOR 2SD1403-CA	
Q22	8-729-119-80	TRANSISTOR 2SC2688-LK	
Q101	8-729-105-74	TRANSISTOR 2SK523-M1	
Q102	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q103	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q104	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q106	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q107	8-729-140-96	TRANSISTOR 2SD774-34	
Q108	8-729-140-97	TRANSISTOR 2SB734-34	
Q109	8-729-105-74	TRANSISTOR 2SK523-M1	
Q110	8-729-143-42	TRANSISTOR 2SK929	
Q111	8-729-143-42	TRANSISTOR 2SK929	
Q112	8-729-142-68	TRANSISTOR 2SJ143	
Q113	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q115	8-729-926-42	TRANSISTOR XDC114ES	
Q116	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q117	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q118	8-729-105-74	TRANSISTOR 2SK523-M1	
Q120	8-729-802-71	TRANSISTOR 2SA1407-D	
Q121	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q127	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q128	8-729-926-42	TRANSISTOR XDC114ES	
Q129	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q130	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q131	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q132	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q133	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q134	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q135	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q136	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q137	8-729-119-80	TRANSISTOR 2SC2688-LK	
Q138	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q139	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q140	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q141	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q142	8-729-143-42	TRANSISTOR 2SK929	
Q143	8-729-119-80	TRANSISTOR 2SC2688-LK	

REF. NO.	PART NO.	DESCRIPTION				REMARK
Q144	8-729-905-86	TRANSISTOR 2SC4054N				
Q145	8-729-402-03	TRANSISTOR 2SK755				
Q146	8-729-119-80	TRANSISTOR 2SC2688-LK				
Q147	8-729-905-86	TRANSISTOR 2SC4054N				
Q148	8-729-802-71	TRANSISTOR 2SA1407-D				
		<RESISTOR>				
R1	1-216-393-00	METAL OXIDE	2.2	5%	3W	F
R2	1-216-393-00	METAL OXIDE	2.2	5%	3W	F
R3	1-216-393-00	METAL OXIDE	2.2	5%	3W	F
R4	1-249-417-11	CARBON	1K	5%	1/4W	
R5	1-215-445-00	METAL	10K	1%	1/4W	
R7	1-215-445-00	METAL	10K	1%	1/4W	
R8	1-215-445-00	METAL	10K	1%	1/4W	
R9	1-215-445-00	METAL	10K	1%	1/4W	
R10	1-249-417-11	CARBON	1K	5%	1/4W	
R11	1-214-824-11	METAL	22	1%	1/2W	
R12	1-214-824-11	METAL	22	1%	1/2W	
R13	1-214-824-11	METAL	22	1%	1/2W	
R14	1-249-417-11	CARBON	1K	5%	1/4W	
R15	1-215-445-00	METAL	10K	1%	1/4W	
R17	1-215-445-00	METAL	10K	1%	1/4W	
R18	1-215-445-00	METAL	10K	1%	1/4W	
R19	1-215-445-00	METAL	10K	1%	1/4W	
R20	1-249-417-11	CARBON	1K	5%	1/4W	
R21	1-214-832-00	METAL	47	1%	1/2W	
R22	1-214-832-00	METAL	47	1%	1/2W	
R23	1-214-832-00	METAL	47	1%	1/2W	
R24	1-249-417-11	CARBON	1K	5%	1/4W	
R25	1-215-445-00	METAL	10K	1%	1/4W	
R27	1-215-445-00	METAL	10K	1%	1/4W	
R28	1-215-445-00	METAL	10K	1%	1/4W	
R29	1-215-445-00	METAL	10K	1%	1/4W	
R30	1-249-417-11	CARBON	1K	5%	1/4W	
R31	1-214-824-11	METAL	22	1%	1/2W	
R32	1-214-824-11	METAL	22	1%	1/2W	
R33	1-214-824-11	METAL	22	1%	1/2W	
R34	1-214-824-11	METAL	22	1%	1/2W	
R35	1-214-824-11	METAL	22	1%	1/2W	
R36	1-214-824-11	METAL	22	1%	1/2W	
R37	1-214-832-00	METAL	47	1%	1/2W	
R38	1-214-832-00	METAL	47	1%	1/2W	
R39	1-214-832-00	METAL	47	1%	1/2W	
R40	1-214-824-11	METAL	22	1%	1/2W	
R41	1-214-824-11	METAL	22	1%	1/2W	
R42	1-214-824-11	METAL	22	1%	1/2W	
R51	1-260-297-11	CARBON	2.7	5%	1/2W	F
R52	1-260-297-11	CARBON	2.7	5%	1/2W	F
R53	1-260-297-11	CARBON	2.7	5%	1/2W	F
R54	1-215-857-11	METAL OXIDE	10	5%	1W	F
R55	1-215-924-00	METAL OXIDE	15K	5%	3W	F
R56	1-247-716-11	CARBON	1.8K	5%	1/4W	F
R57	1-247-807-31	CARBON	100	5%	1/4W	
R58	1-247-807-31	CARBON	100	5%	1/4W	
R59	1-247-807-31	CARBON	100	5%	1/4W	
R60	1-247-807-31	CARBON	100	5%	1/4W	
R61	1-247-807-31	CARBON	100	5%	1/4W	
R62	1-247-807-31	CARBON	100	5%	1/4W	
R63	1-247-712-11	CARBON	820	5%	1/4W	F
R64	1-247-712-11	CARBON	820	5%	1/4W	F
R65	1-247-712-11	CARBON	820	5%	1/4W	F
R66	1-215-905-11	METAL OXIDE	10	5%	3W	F
R67	1-216-397-11	METAL OXIDE	4.7	5%	3W	F
R68	1-216-397-11	METAL OXIDE	4.7	5%	3W	F
R69	1-216-397-11	METAL OXIDE	4.7	5%	3W	F
R101	1-215-457-00	METAL	33K	1%	1/4W	
R102	1-249-429-11	CARBON	10K	5%	1/4W	

REF. NO.	PART NO.	DESCRIPTION				REMARK
R103	1-249-429-11	CARBON	10K	5%	1/4W	
R109	1-249-429-11	CARBON	10K	5%	1/4W	
R110	1-249-417-11	CARBON	1K	5%	1/4W	
R111	1-249-429-11	CARBON	10K	5%	1/4W	
R112	1-249-425-11	CARBON	4.7K	5%	1/4W	
R113	1-247-807-31	CARBON	100	5%	1/4W	
R114	1-249-417-11	CARBON	1K	5%	1/4W	
R115	1-215-445-00	METAL	10K	1%	1/4W	
R116	1-215-445-00	METAL	10K	1%	1/4W	
R117	1-215-433-00	METAL	3.3K	1%	1/4W	
R118	1-247-843-11	CARBON	3.3K	5%	1/4W	
R119	1-215-457-00	METAL	33K	1%	1/4W	
R120	1-215-457-00	METAL	33K	1%	1/4W	
R121	1-215-445-00	METAL	10K	1%	1/4W	
R122	1-249-425-11	CARBON	4.7K	5%	1/4W	
R123	1-215-445-00	METAL	10K	1%	1/4W	
R124	1-215-445-00	METAL	10K	1%	1/4W	
R125	1-215-457-00	METAL	33K	1%	1/4W	
R126	1-215-457-00	METAL	33K	1%	1/4W	
R127	1-215-447-00	METAL	12K	1%	1/4W	
R128	1-215-445-00	METAL	10K	1%	1/4W	
R129	1-215-447-00	METAL	12K	1%	1/4W	
R130	1-249-425-11	CARBON	4.7K	5%	1/4W	
R131	1-215-445-00	METAL	10K	1%	1/4W	
R132	1-215-449-00	METAL	15K	1%	1/4W	
R133	1-249-425-11	CARBON	4.7K	5%	1/4W	
R134	1-215-453-00	METAL	22K	1%	1/4W	
R135	1-249-429-11	CARBON	10K	5%	1/4W	
R136	1-247-843-11	CARBON	3.3K	5%	1/4W	
R137	1-247-843-11	CARBON	3.3K	5%	1/4W	
R138	1-247-843-11	CARBON	3.3K	5%	1/4W	
R139	1-249-425-11	CARBON	4.7K	5%	1/4W	
R140	1-249-417-11	CARBON	1K	5%	1/4W	
R141	1-249-421-11	CARBON	2.2K	5%	1/4W	
R142	1-249-421-11	CARBON	2.2K	5%	1/4W	
R143	1-249-420-11	CARBON	1.8K	5%	1/4W	
R144	1-249-421-11	CARBON	2.2K	5%	1/4W	
R145	1-247-843-11	CARBON	3.3K	5%	1/4W	
R146	1-249-435-11	CARBON	33K	5%	1/4W	
R147	1-249-421-11	CARBON	2.2K	5%	1/4W	
R148	1-249-440-11	CARBON	82K	5%	1/4W	
R149	1-249-417-11	CARBON	1K	5%	1/4W	
R150	1-215-461-00	METAL	47K	1%	1/4W	
R151	1-249-425-11	CARBON	4.7K	5%	1/4W	
R152	1-215-445-00	METAL	10K	1%	1/4W	
R153	1-215-445-00	METAL	10K	1%	1/4W	
R154	1-247-895-91	CARBON	470K	5%	1/4W	
R155	1-249-420-11	CARBON	1.8K	5%	1/4W	
R156	1-249-437-11	CARBON	47K	5%	1/4W	
R157	1-249-413-11	CARBON	470	5%	1/4W	
R158	1-247-807-31	CARBON	100	5%	1/4W	
R159	1-247-807-31	CARBON	100	5%	1/4W	
R160	1-249-417-11	CARBON	1K	5%	1/4W	
R161	1-215-467-00	METAL	82K	1%	1/4W	
R162	1-215-866-11	METAL OXIDE	330	5%	1W	F
R163	1-215-461-00	METAL	47K	1%	1/4W	
R164	1-249-421-11	CARBON	2.2K	5%	1/4W	
R165	1-215-445-00	METAL	10K	1%	1/4W	
R166	1-249-429-11	CARBON	10K	5%	1/4W	
R167	1-249-437-11	CARBON	47K	5%	1/4W	
R168	1-249-429-11	CARBON	10K	5%	1/4W	
R169	1-247-725-11	CARBON	10K	5%	1/4W	F
R170	1-249-425-11	CARBON	4.7K	5%	1/4W	
R171	1-249-417-11	CARBON	1K	5%	1/4W	
R172	1-249-417-11	CARBON	1K	5%	1/4W	
R173	1-216-389-11	METAL OXIDE	1	5%	3W	F
R174	1-216-388-11	METAL OXIDE	0.82	5%	3W	F
R176	1-249-923-11	CARBON	1K	5%	1/4W	F
R177	1-215-445-00	METAL	10K	1%	1/4W	

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The componants identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

E **KC**

REF. NO.	PART NO.	DESCRIPTION			REMARK	
R178	1-249-417-11	CARBON	1K	5%	1/4W	
R179	1-249-429-11	CARBON	10K	5%	1/4W	
R180	1-215-433-00	METAL	3.3K	1%	1/4W	
R181	1-249-441-11	CARBON	100K	5%	1/4W	
R182	1-249-421-11	CARBON	2.2K	5%	1/4W	
R183	1-247-807-31	CARBON	100	5%	1/4W	
R184	1-249-425-11	CARBON	4.7K	5%	1/4W	
R186	1-249-437-11	CARBON	47K	5%	1/4W	
R187	1-215-461-00	METAL	47K	1%	1/4W	
R191	1-247-843-11	CARBON	3.3K	5%	1/4W	
R192	1-247-863-91	CARBON	22K	5%	1/4W	
R193	1-247-903-00	CARBON	1M	5%	1/4W	
R194	1-247-843-11	CARBON	3.3K	5%	1/4W	
R195	1-247-843-11	CARBON	3.3K	5%	1/4W	
R196	1-247-883-00	CARBON	150K	5%	1/4W	
R197	1-247-807-31	CARBON	100	5%	1/4W	
R198	1-215-447-00	METAL	12K	1%	1/4W	
R199	1-247-843-11	CARBON	3.3K	5%	1/4W	
R201	1-249-417-11	CARBON	1K	5%	1/4W	
R202	1-249-417-11	CARBON	1K	5%	1/4W	
R203	1-249-453-11	CARBON	3.3	5%	1/4W	F
R204	1-249-429-11	CARBON	10K	5%	1/4W	
R205	1-249-427-11	CARBON	6.8K	5%	1/4W	
R206	1-249-429-11	CARBON	10K	5%	1/4W	
R207	1-249-441-11	CARBON	100K	5%	1/4W	
R208	1-216-341-11	METAL OXIDE	0.22	5%	1W	F
R209	1-249-417-11	CARBON	1K	5%	1/4W	
R210	1-215-451-00	METAL	18K	1%	1/4W	
R212	1-249-431-11	CARBON	15K	5%	1/4W	
R213	1-249-429-11	CARBON	10K	5%	1/4W	
R214	1-215-883-11	METAL OXIDE	33	5%	2W	F
R215	1-249-417-11	CARBON	1K	5%	1/4W	
R216	1-247-843-11	CARBON	3.3K	5%	1/4W	
R217	1-249-399-11	CARBON	33	5%	1/4W	
R218	1-249-417-11	CARBON	1K	5%	1/4W	F
R219	1-215-445-00	METAL	10K	1%	1/4W	
R220	1-215-445-00	METAL	10K	1%	1/4W	
R221	1-249-476-11	CARBON	1.5	5%	1/2W	F
R222	1-249-441-11	CARBON	100K	5%	1/4W	
R223	1-249-429-11	CARBON	10K	5%	1/4W	
R224	1-249-429-11	CARBON	10K	5%	1/4W	
R225	1-249-421-11	CARBON	2.2K	5%	1/4W	
R226	1-215-445-00	METAL	10K	1%	1/4W	
R227	1-249-429-11	CARBON	10K	5%	1/4W	
R228	1-249-429-11	CARBON	10K	5%	1/4W	
R229	1-249-429-11	CARBON	10K	5%	1/4W	
R230	1-249-443-11	CARBON	0.47	5%	1/4W	F
R231	1-249-443-11	CARBON	0.47	5%	1/4W	F
R232	1-249-437-11	CARBON	47K	5%	1/4W	
R233	1-249-417-11	CARBON	1K	5%	1/4W	
R234	1-249-417-11	CARBON	1K	5%	1/4W	
R235	1-249-437-11	CARBON	47K	5%	1/4W	
R236	1-249-437-11	CARBON	47K	5%	1/4W	
R237	1-249-441-11	CARBON	100K	5%	1/4W	
R238	1-249-399-11	CARBON	33	5%	1/4W	
R239	1-247-843-11	CARBON	3.3K	5%	1/4W	
R240	1-249-441-11	CARBON	100K	5%	1/4W	
R241	1-249-437-11	CARBON	47K	5%	1/4W	
R242	1-215-461-00	METAL	47K	1%	1/4W	
R243	1-215-469-00	METAL	100K	1%	1/4W	
R244	1-247-843-11	CARBON	3.3K	5%	1/4W	
R245	1-216-441-00	METAL OXIDE	27K	5%	1W	F
R246	1-215-435-00	METAL	3.9K	1%	1/4W	
R247	1-249-421-11	CARBON	2.2K	5%	1/4W	
R248	1-249-425-11	CARBON	4.7K	5%	1/4W	
R249	1-215-421-00	METAL	1K	1%	1/4W	
R250	1-215-445-00	METAL	10K	1%	1/4W	
R251	1-247-887-00	CARBON	220K	5%	1/4W	

REF. NO.	PART NO.	DESCRIPTION			REMARK	
R252	1-249-429-11	CARBON	10K	5%	1/4W	
R254	1-247-807-31	CARBON	100	5%	1/4W	
R255	1-249-417-11	CARBON	1K	5%	1/4W	
R256	1-249-441-11	CARBON	100K	5%	1/4W	
R257	1-249-437-11	CARBON	47K	5%	1/4W	
R258	1-215-435-00	METAL	3.9K	1%	1/4W	
R259	1-215-439-00	METAL	5.6K	1%	1/4W	
R260	1-215-445-00	METAL	10K	1%	1/4W	
R261	1-249-429-11	CARBON	10K	5%	1/4W	
R262	1-247-807-31	CARBON	100	5%	1/4W	
R263	1-215-878-00	METAL OXIDE	33K	5%	1W	F
R264	1-249-429-11	CARBON	10K	5%	1/4W	
R265	1-247-807-31	CARBON	100	5%	1/4W	
R266	1-249-441-11	CARBON	100K	5%	1/4W	
R267	1-215-379-00	METAL	18	1%	1/4W	
R268	1-215-379-00	METAL	18	1%	1/4W	
R269	1-215-421-00	METAL	1K	1%	1/4W	
R270	1-215-421-00	METAL	1K	1%	1/4W	
R271	1-215-924-00	METAL OXIDE	15K	5%	3W	F
R272	1-249-453-11	CARBON	3.3	5%	1/4W	F
R273	1-249-429-11	CARBON	10K	5%	1/4W	
R274	1-249-429-11	CARBON	10K	5%	1/4W	
R275	1-249-429-11	CARBON	10K	5%	1/4W	
R276	1-249-429-11	CARBON	10K	5%	1/4W	
R281	1-249-451-11	CARBON	2.2	5%	1/4W	F
R282	1-249-451-11	CARBON	2.2	5%	1/4W	F
R283	1-249-425-11	CARBON	4.7K	5%	1/4W	
R284	1-215-467-00	METAL	82K	1%	1/4W	
R285	1-215-445-00	METAL	10K	1%	1/4W	
R286	1-215-911-11	METAL OXIDE	100	5%	3W	F
R287	1-202-727-00	SOLID	4.7M	10%	1/2W	
R288	1-202-727-00	SOLID	4.7M	10%	1/2W	
R289	1-202-727-00	SOLID	4.7M	10%	1/2W	
R290	1-202-727-00	SOLID	4.7M	10%	1/2W	
R291	1-215-429-00	METAL	2.2K	1%	1/4W	
R292	1-215-429-00	METAL	2.2K	1%	1/4W	
R293	1-249-417-11	CARBON	1K	5%	1/4W	
R294	1-215-429-00	METAL	2.2K	1%	1/4W	
R295	1-215-429-00	METAL	2.2K	1%	1/4W	
R296	1-249-429-11	CARBON	10K	5%	1/4W	
R297	1-215-453-00	METAL	22K	1%	1/4W	
R298	1-249-417-11	CARBON	1K	5%	1/4W	

<VARIABLE RESISTOR>

RV101	1-228-997-00	RES, ADJ, CARBON 100K
RV104	1-228-997-00	RES, ADJ, CARBON 100K

<TRANSFORMER>

T2	⚠1-439-479-11	TRANSFORMER, LINE OUTPUT
T3	1-437-078-00	TRANSFORMER, HORIZONTAL DRIVE
T102	⚠1-439-480-11	TRANSFORMER, HORIZONTAL OUTPUT
T103	1-437-144-11	TRANSFORMER, FERRITE (HDT)
T104	1-437-144-11	TRANSFORMER, FERRITE (HDT)
T105	1-424-290-11	TRANSFORMER, DRIVE

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* A-1380-521-A KC BOARD, COMPLETE

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<CAPACITOR>

C201	1-126-964-11	ELECT	10MF	20%	50V
C202	1-126-964-11	ELECT	10MF	20%	50V
C204	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C205	1-163-031-11	CERAMIC CHIP	0.01MF		50V

REF. NO.	PART NO.	DESCRIPTION			REMARK	
C206	1-126-964-11	ELECT	10MF	20%	50V	
C207	1-104-709-11	ELECT	4.7MF	0	160V	
C208	1-102-050-00	CERAMIC	0.01MF		500V	
C209	1-124-903-11	ELECT	1MF	20%	50V	
C210	1-136-173-00	FILM	0.47MF	5%	50V	
C211	1-126-967-11	ELECT	47MF	20%	50V	
C212	1-126-967-11	ELECT	47MF	20%	50V	
C213	1-126-964-11	ELECT	10MF	20%	50V	
C214	1-126-964-11	ELECT	10MF	20%	50V	
C215	1-163-137-00	CERAMIC CHIP	680PF	5%	50V	
		<CONNECTOR>				
CN291	1-564-511-11	PLUG, CONNECTOR 8P				
CN292	1-508-784-00	PIN, CONNECTOR (5mm PITCH) 1P				
CN293	*1-564-517-11	PLUG, CONNECTOR 2P				
CN294	*1-564-506-11	PLUG, CONNECTOR 3P				
CN295	*1-564-518-11	PLUG, CONNECTOR 3P				
		<DIODE>				
D201	8-719-110-17	DIODE RD10ESB2				
D202	8-719-110-17	DIODE RD10ESB2				
D203	8-719-948-45	DIODE ERA22-08				
D204	8-719-921-19	DIODE 1SS119-25TG				
D205	8-719-921-19	DIODE 1SS119-25TG				
		<IC>				
IC201	8-759-109-82	IC uPC814C				
IC202	8-759-109-82	IC uPC814C				
		<COIL>				
L201	1-459-155-00	COIL (WITH CORE) 45UH				
		<TRANSISTOR>				
Q201	8-729-112-61	TRANSISTOR 2SA1441-L				
	4-382-854-11	SCREW (M3X10), P, SW (+) ; Q201				
Q202	8-729-207-82	TRANSISTOR 2SC3421-Y				
Q203	8-729-143-42	TRANSISTOR 2SK929				
Q204	8-729-143-42	TRANSISTOR 2SK929				
	4-382-854-11	SCREW (M3X10), P, SW (+) ; Q204				
Q205	8-729-033-29	TRANSISTOR 2SD1210(LK)-MT2				
	4-382-854-11	SCREW (M3X10), P, SW (+) ; Q205				
	4-393-406-01	SHEET (R), RADIATION ; Q205				
	7-682-548-04	SCREW +P 3X8 ; Q205				
Q206	8-729-033-30	TRANSISTOR 2SB897(LK)-MT2				
	4-382-854-11	SCREW (M3X10), P, SW (+) ; Q206				
	4-393-406-01	SHEET (R), RADIATION ; Q206				
	7-682-548-04	SCREW +P 3X8 ; Q206				
		<RESISTOR>				
R201	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W	
R204	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W	
R205	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R206	1-208-806-11	METAL CHIP	10K	0.50%	1/10W	
R207	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R208	1-208-814-11	METAL CHIP	22K	0.50%	1/10W	
R209	1-208-814-11	METAL CHIP	22K	0.50%	1/10W	
R210	1-202-818-00	SOLID	1K	20%	1/2W	
R211	1-202-818-00	SOLID	1K	20%	1/2W	
R212	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R213	1-216-097-91	METAL GLAZE	100K	5%	1/10W	
R214	1-215-491-00	METAL	820K	1%	1/4W	
R215	1-215-902-11	METAL OXIDE	47K	5%	2W	F
R216	1-216-639-11	METAL CHIP	330	0.50%	1/10W	
R217	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R218	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R219	1-249-923-11	CARBON	1K	5%	1/4W	F
R220	1-249-899-11	CARBON	100	5%	1/4W	F
R221	1-202-842-11	SOLID	220K	20%	1/2W	
R222	1-249-923-11	CARBON	1K	5%	1/4W	F
R223	1-215-904-11	METAL OXIDE	100K	5%	2W	F
R224	1-202-842-11	SOLID	220K	20%	1/2W	
R225	1-249-923-11	CARBON	1K	5%	1/4W	F
R226	1-249-383-11	CARBON	1.5	5%	1/4W	F
R227	1-249-451-11	CARBON	2.2	5%	1/4W	F
R228	1-208-784-11	METAL CHIP	1.2K	0.50%	1/10W	
R229	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R230	1-216-637-11	METAL CHIP	270	0.50%	1/10W	
R231	1-216-665-11	METAL CHIP	3.9K	0.50%	1/10W	
R232	1-249-899-11	CARBON	100	5%	1/4W	F
R233	1-249-899-11	CARBON	100	5%	1/4W	F
R234	1-249-447-11	CARBON	1	5%	1/4W	F
R235	1-249-447-11	CARBON	1	5%	1/4W	F
R236	1-249-923-11	CARBON	1K	5%	1/4W	F
R237	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R238	1-249-449-11	CARBON	1.5	5%	1/4W	F
		<SPARK GAP>				
SG201	1-519-422-11	GAP, SPARK				
SG202	1-519-422-11	GAP, SPARK				
		<TRANSFORMER>				
T210	1-429-559-11	TRANSFORMER, FERRITE (DFT)				

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*** A-1380-522-A KF BOARD, COMPLETE**

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		<CAPACITOR>			
C1	1-124-902-00	ELECT	0.47MF	20%	50V
C2	1-126-967-11	ELECT	47MF	20%	16V
C3	1-124-902-00	ELECT	0.47MF	20%	50V
C4	1-126-967-11	ELECT	47MF	20%	16V
C5	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C6	1-126-964-11	ELECT	10MF	20%	50V
C7	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C8	1-124-903-11	ELECT	1MF	20%	50V
C9	1-130-871-11	FILM	0.01MF	5%	50V
C10	1-124-903-11	ELECT	1MF	20%	50V
C11	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C12	1-126-964-11	ELECT	10MF	20%	50V
C13	1-124-903-11	ELECT	1MF	20%	50V
C14	1-130-871-11	FILM	0.01MF	5%	50V
C15	1-124-903-11	ELECT	1MF	20%	50V
C16	1-136-161-00	FILM	0.047MF	5%	50V
C17	1-124-902-00	ELECT	0.47MF	20%	50V
C18	1-126-096-11	ELECT	10MF	20%	25V
C19	1-126-963-11	ELECT	4.7MF	20%	50V
C20	1-126-967-11	ELECT	47MF	20%	16V
C21	1-124-902-00	ELECT	0.47MF	20%	50V
C22	1-136-165-00	FILM	0.1MF	5%	50V
C23	1-136-155-00	FILM	0.015MF	5%	50V
C24	1-126-967-11	ELECT	47MF	20%	16V
C25	1-124-902-00	ELECT	0.47MF	20%	50V
C26	1-126-964-11	ELECT	10MF	20%	50V

KF **Y**

REF. NO.	PART NO.	DESCRIPTION			REMARK
		<CONNECTOR>			
CN301	1-564-524-11	PLUG, CONNECTOR 9P			
CN302	*1-564-518-11	PLUG, CONNECTOR 3P			
		<DIODE>			
D1	8-719-106-71	DIODE RD12M-B2			
		<IC>			
IC1	8-759-708-12	IC NJM78L12A			
IC2	8-759-700-69	IC NJM79L12A			
IC3	8-759-345-38	IC HD14538BP			
IC4	8-759-109-82	IC uPC814C			
IC5	8-752-065-69	IC CXA1470AS			
IC6	8-759-144-82	IC uPC2405HF			
IC7	8-759-247-67	IC LM2990T-5.0			
		<TRANSISTOR>			
Q1	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q2	8-729-216-22	TRANSISTOR 2SA1162-G			
Q3	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q4	8-729-216-22	TRANSISTOR 2SA1162-G			
		<RESISTOR>			
R1	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R2	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R3	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R4	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R5	1-216-687-11	METAL CHIP	33K	0.50%	1/10W
R6	1-216-077-00	METAL GLAZE	15K	5%	1/10W
R7	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R8	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R9	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R10	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R11	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R12	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R13	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R14	1-216-077-00	METAL GLAZE	15K	5%	1/10W
R15	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R16	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R17	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R18	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R19	1-216-039-00	METAL GLAZE	390	5%	1/10W
R20	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R21	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R22	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R23	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R24	1-216-101-00	METAL GLAZE	150K	5%	1/10W
R25	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R26	1-208-823-11	METAL CHIP	51K	0.50%	1/10W
R27	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R28	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W

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*A-1394-749-A Y BOARD, COMPLETE

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1-526-654-21	SOCKET, IC (DP) 16P
*1-526-659-00	SOCKET, IC (DP) 28P
*1-526-950-11	SOCKET, IC 64P
*1-563-949-11	SOCKET, SIL 8P
7-322-065-19	RUBBER, SILICON RTV (KE490W)
9-910-999-31	TAPE, MASKING (19MMX50M) #232

REF. NO.	PART NO.	DESCRIPTION			REMARK
		<CAPACITOR>			
C2	1-126-963-11	ELECT	4.7MF	20%	50V
C3	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C4	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C6	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C7	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C8	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C9	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C10	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C11	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C12	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C13	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C14	1-163-036-00	CERAMIC CHIP	0.068MF		50V
C15	1-163-036-00	CERAMIC CHIP	0.068MF		50V
C16	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C17	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C18	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C19	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C20	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C21	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C22	1-163-099-00	CERAMIC CHIP	18PF	5%	50V
C23	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C24	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C25	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C26	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C27	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C28	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C29	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C30	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C31	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C32	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C33	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C34	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C35	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C36	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C37	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C38	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C39	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C40	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C41	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C42	1-128-581-11	ELECT	4.7MF	20%	63V
C43	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C45	1-163-087-00	CERAMIC CHIP	4PF	0.25PF	50V
C46	1-163-222-11	CERAMIC CHIP	5PF	0.25PF	50V
C47	1-104-661-91	ELECT	330MF	20%	16V
C48	1-128-581-11	ELECT	4.7MF	20%	63V
C49	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C50	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C51	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C52	1-126-935-11	ELECT	470MF	20%	16V
C53	1-128-581-11	ELECT	4.7MF	20%	63V
C54	1-126-933-11	ELECT	100MF	20%	16V
C55	1-126-933-11	ELECT	100MF	20%	16V
C56	1-126-933-11	ELECT	100MF	20%	16V
C57	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C58	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C59	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C60	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C61	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C62	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C63	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C64	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C65	1-163-036-00	CERAMIC CHIP	0.068MF		50V
C67	1-104-661-91	ELECT	330MF	20%	16V
C68	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C69	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C70	1-163-251-11	CERAMIC CHIP	100PF	5%	50V

The componants identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

REF. NO.	PART NO.	DESCRIPTION			REMARK
C71	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C72	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C73	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C74	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C75	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C76	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C77	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C78	1-126-964-11	ELECT	10MF	20%	50V
C79	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C81	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C82	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C83	1-126-964-11	ELECT	10MF	20%	50V
C84	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C85	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C86	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C87	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C88	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C90	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C91	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C92	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C93	1-163-091-00	CERAMIC CHIP	8PF	0.25PF	50V
C94	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C95	1-128-581-11	ELECT	4.7MF	20%	63V
C97	1-104-661-91	ELECT	330MF	20%	16V
C98	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C99	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C100	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C101	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C102	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C103	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C104	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C105	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C106	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C107	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C109	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C110	1-164-096-11	CERAMIC	0.01MF		50V
		<CONNECTOR>			
CN52	*1-568-984-11	CONNECTOR, MALE 96P			
		<DIODE>			
D2	8-719-971-20	DIODE ERC38-06			
D4	8-719-820-12	DIODE TLR224			
D5	8-719-104-34	DIODE 1S2836			
D7	8-719-801-78	DIODE 1SS184			
D8	8-719-801-78	DIODE 1SS184			
D9	8-719-104-34	DIODE 1S2836			
D10	8-719-104-34	DIODE 1S2836			
		<IC>			
IC1	8-759-320-49	IC HD64180R1P8			
IC3	8-759-336-84	IC LC3564SM-10			
IC4	8-759-196-99	IC uPD28C64ACZ-20			
IC5	8-759-925-80	IC SN74HC14ANS			
IC6	8-759-239-55	IC TC74HC123AF			
IC7	8-759-008-21	IC MC74HC541F			
IC8	8-759-008-21	IC MC74HC541F			
IC9	8-759-995-97	IC MB8855-1314N			
IC10	8-759-984-56	IC MB670840PF			
IC11	8-759-984-59	IC MB654842UPF			
IC12	8-759-984-58	IC MB671469PF			
IC13	8-759-258-20	IC MBCG24123-4188			
IC14	8-752-350-68	IC CXK5863BM-35			
IC15	8-752-333-84	IC CXK3864-040M			
IC16	8-752-333-85	IC CXK3864-041M			

REF. NO.	PART NO.	DESCRIPTION			REMARK
IC17	8-752-333-86	IC CXK3864-042M			
IC18	8-759-301-24	IC HD10124			
IC19	8-759-301-24	IC HD10124			
IC20	8-752-306-51	IC CX23065A			
IC21	8-759-911-24	IC SN74S124N			
IC22	8-759-100-93	IC uPC393G2			
IC23	8-759-034-47	IC MC74F00M-T2			
IC24	8-759-061-67	IC MC34051M			
IC25	8-759-114-06	IC uPC814G2-1			
IC26	8-759-232-50	IC TC74HC132AF			
IC27	8-759-240-41	IC TC74HC107AP			
IC28	8-759-032-01	IC MC74HC00AF			
IC29	8-759-239-55	IC TC74HC123AF			
IC30	8-759-032-29	IC MC74HC126AF			
IC31	8-759-925-80	IC SN74HC14ANS			
IC32	8-759-008-21	IC MC74HC541F			
IC33	8-759-979-65	IC RH5VA43AA-T1			
IC34	8-759-032-41	IC MC74HC157AF			
IC35	8-759-144-82	IC uPC2405HF			
IC36	8-759-911-24	IC SN74S124N			
IC37	8-759-232-58	IC TC74HC139AF			
IC38	8-759-033-03	IC MC74F08M			
		<COIL>			
L1	1-459-155-00	COIL (WITH CORE) 45UH			
L2	1-459-155-00	COIL (WITH CORE) 45UH			
L3	1-459-155-00	COIL (WITH CORE) 45UH			
L4	1-459-155-00	COIL (WITH CORE) 45UH			
		<IC LINK>			
PS1	⚠1-532-679-91	LINK, IC 0.6A/150V			
PS2	⚠1-532-679-91	LINK, IC 0.6A/150V			
		<TRANSISTOR>			
Q3	8-729-216-22	TRANSISTOR 2SA1162-G			
Q4	8-729-216-22	TRANSISTOR 2SA1162-G			
Q5	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q6	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q7	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q8	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q9	8-729-216-22	TRANSISTOR 2SA1162-G			
Q10	8-729-230-49	TRANSISTOR 2SC2712-YG			
		<RESISTOR>			
R1	1-216-001-00	METAL GLAZE	10	5%	1/10W
R2	1-216-001-00	METAL GLAZE	10	5%	1/10W
R3	1-216-001-00	METAL GLAZE	10	5%	1/10W
R4	1-216-001-00	METAL GLAZE	10	5%	1/10W
R5	1-216-001-00	METAL GLAZE	10	5%	1/10W
R6	1-216-001-00	METAL GLAZE	10	5%	1/10W
R7	1-216-001-00	METAL GLAZE	10	5%	1/10W
R8	1-216-001-00	METAL GLAZE	10	5%	1/10W
R9	1-216-001-00	METAL GLAZE	10	5%	1/10W
R10	1-216-001-00	METAL GLAZE	10	5%	1/10W
R11	1-216-001-00	METAL GLAZE	10	5%	1/10W
R12	1-216-001-00	METAL GLAZE	10	5%	1/10W
R13	1-216-025-91	METAL GLAZE	100	5%	1/10W
R14	1-216-025-91	METAL GLAZE	100	5%	1/10W
R15	1-216-025-91	METAL GLAZE	100	5%	1/10W
R16	1-216-025-91	METAL GLAZE	100	5%	1/10W
R17	1-216-037-00	METAL GLAZE	330	5%	1/10W
R18	1-216-025-91	METAL GLAZE	100	5%	1/10W
R19	1-216-025-91	METAL GLAZE	100	5%	1/10W
R20	1-216-037-00	METAL GLAZE	330	5%	1/10W
R21	1-216-025-91	METAL GLAZE	100	5%	1/10W

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REF. NO.	PART NO.	DESCRIPTION			REMARK
R22	1-216-025-91	METAL GLAZE	100	5%	1/10W
R23	1-216-025-91	METAL GLAZE	100	5%	1/10W
R24	1-216-037-00	METAL GLAZE	330	5%	1/10W
R25	1-216-037-00	METAL GLAZE	330	5%	1/10W
R26	1-216-037-00	METAL GLAZE	330	5%	1/10W
R27	1-216-025-91	METAL GLAZE	100	5%	1/10W
R28	1-216-025-91	METAL GLAZE	100	5%	1/10W
R29	1-216-025-91	METAL GLAZE	100	5%	1/10W
R30	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R31	1-216-025-91	METAL GLAZE	100	5%	1/10W
R32	1-216-025-91	METAL GLAZE	100	5%	1/10W
R33	1-216-037-00	METAL GLAZE	330	5%	1/10W
R34	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R36	1-216-037-00	METAL GLAZE	330	5%	1/10W
R37	1-216-025-91	METAL GLAZE	100	5%	1/10W
R38	1-216-025-91	METAL GLAZE	100	5%	1/10W
R39	1-216-037-00	METAL GLAZE	330	5%	1/10W
R40	1-216-037-00	METAL GLAZE	330	5%	1/10W
R41	1-216-037-00	METAL GLAZE	330	5%	1/10W
R42	1-216-037-00	METAL GLAZE	330	5%	1/10W
R43	1-216-037-00	METAL GLAZE	330	5%	1/10W
R44	1-216-025-91	METAL GLAZE	100	5%	1/10W
R45	1-216-037-00	METAL GLAZE	330	5%	1/10W
R46	1-216-037-00	METAL GLAZE	330	5%	1/10W
R47	1-216-025-91	METAL GLAZE	100	5%	1/10W
R48	1-216-037-00	METAL GLAZE	330	5%	1/10W
R49	1-216-037-00	METAL GLAZE	330	5%	1/10W
R50	1-216-037-00	METAL GLAZE	330	5%	1/10W
R51	1-216-037-00	METAL GLAZE	330	5%	1/10W
R52	1-216-037-00	METAL GLAZE	330	5%	1/10W
R53	1-216-037-00	METAL GLAZE	330	5%	1/10W
R54	1-216-037-00	METAL GLAZE	330	5%	1/10W
R55	1-216-037-00	METAL GLAZE	330	5%	1/10W
R56	1-216-037-00	METAL GLAZE	330	5%	1/10W
R57	1-216-037-00	METAL GLAZE	330	5%	1/10W
R58	1-216-037-00	METAL GLAZE	330	5%	1/10W
R59	1-216-037-00	METAL GLAZE	330	5%	1/10W
R62	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R63	1-216-091-00	METAL GLAZE	56K	5%	1/10W
R64	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R65	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R66	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R67	1-216-045-00	METAL GLAZE	680	5%	1/10W
R68	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R69	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R70	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R71	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R72	1-216-025-91	METAL GLAZE	100	5%	1/10W
R73	1-216-025-91	METAL GLAZE	100	5%	1/10W
R74	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R75	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R76	1-216-045-00	METAL GLAZE	680	5%	1/10W
R77	1-216-045-00	METAL GLAZE	680	5%	1/10W
R78	1-216-045-00	METAL GLAZE	680	5%	1/10W
R79	1-216-045-00	METAL GLAZE	680	5%	1/10W
R80	1-216-025-91	METAL GLAZE	100	5%	1/10W
R81	1-216-025-91	METAL GLAZE	100	5%	1/10W
R82	1-216-045-00	METAL GLAZE	680	5%	1/10W
R83	1-216-045-00	METAL GLAZE	680	5%	1/10W
R84	1-216-025-91	METAL GLAZE	100	5%	1/10W
R85	1-216-045-00	METAL GLAZE	680	5%	1/10W
R86	1-216-045-00	METAL GLAZE	680	5%	1/10W
R87	1-216-045-00	METAL GLAZE	680	5%	1/10W
R88	1-216-045-00	METAL GLAZE	680	5%	1/10W
R89	1-216-025-91	METAL GLAZE	100	5%	1/10W
R90	1-216-025-91	METAL GLAZE	100	5%	1/10W
R91	1-216-045-00	METAL GLAZE	680	5%	1/10W
R92	1-216-025-91	METAL GLAZE	100	5%	1/10W
R93	1-216-045-00	METAL GLAZE	680	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R102	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R103	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R104	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R105	1-216-083-00	METAL GLAZE	27K	5%	1/10W
R106	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R107	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R108	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R109	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R110	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R111	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R112	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R113	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R114	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R115	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R116	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R117	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R118	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R119	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R120	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R121	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R122	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R123	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R124	1-216-045-00	METAL GLAZE	680	5%	1/10W
R125	1-216-025-91	METAL GLAZE	100	5%	1/10W
R126	1-216-025-91	METAL GLAZE	100	5%	1/10W
R127	1-216-025-91	METAL GLAZE	100	5%	1/10W
R128	1-216-025-91	METAL GLAZE	100	5%	1/10W
R129	1-216-025-91	METAL GLAZE	100	5%	1/10W
R130	1-216-025-91	METAL GLAZE	100	5%	1/10W
R131	1-216-025-91	METAL GLAZE	100	5%	1/10W
R132	1-216-025-91	METAL GLAZE	100	5%	1/10W
R133	1-216-025-91	METAL GLAZE	100	5%	1/10W
R134	1-216-025-91	METAL GLAZE	100	5%	1/10W
R135	1-216-025-91	METAL GLAZE	100	5%	1/10W
R136	1-216-025-91	METAL GLAZE	100	5%	1/10W
R137	1-216-025-91	METAL GLAZE	100	5%	1/10W
R138	1-216-025-91	METAL GLAZE	100	5%	1/10W
R139	1-216-025-91	METAL GLAZE	100	5%	1/10W
R140	1-216-025-91	METAL GLAZE	100	5%	1/10W
R141	1-216-025-91	METAL GLAZE	100	5%	1/10W
R142	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R143	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R144	1-216-295-91	CONDUCTOR, CHIP			
R146	1-216-671-11	METAL CHIP	6.8K	0.50%	1/10W
R147	1-216-025-91	METAL GLAZE	100	5%	1/10W
R148	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R149	1-216-025-91	METAL GLAZE	100	5%	1/10W
R150	1-216-105-91	METAL GLAZE	220K	5%	1/10W
R151	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R152	1-216-025-91	METAL GLAZE	100	5%	1/10W
R153	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R154	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R155	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R156	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R157	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R158	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R159	1-216-037-00	METAL GLAZE	330	5%	1/10W
R162	1-216-037-00	METAL GLAZE	330	5%	1/10W
R163	1-216-037-00	METAL GLAZE	330	5%	1/10W
R164	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R165	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R166	1-216-025-91	METAL GLAZE	100	5%	1/10W
R167	1-216-037-00	METAL GLAZE	330	5%	1/10W
R168	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R169	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R170	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R171	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W
R172	1-216-085-00	METAL GLAZE	33K	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION		REMARK
R173	1-216-041-00	METAL GLAZE 470	5%	1/10W
R174	1-216-079-00	METAL GLAZE 18K	5%	1/10W
R175	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R176	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W
R177	1-216-129-00	METAL GLAZE 2.2M	5%	1/10W
R178	1-216-045-00	METAL GLAZE 680	5%	1/10W
R179	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R181	1-216-089-91	METAL GLAZE 47K	5%	1/10W
R182	1-216-033-00	METAL GLAZE 220	5%	1/10W
R183	1-216-033-00	METAL GLAZE 220	5%	1/10W
R184	1-216-063-91	METAL GLAZE 3.9K	5%	1/10W
R189	1-216-055-00	METAL GLAZE 1.8K	5%	1/10W
R190	1-216-295-91	CONDUCTOR, CHIP		
R191	1-216-017-91	METAL GLAZE 47	5%	1/10W
R192	1-216-033-00	METAL GLAZE 220	5%	1/10W
R193	1-216-033-00	METAL GLAZE 220	5%	1/10W
R194	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R195	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R199	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R200	1-216-295-91	CONDUCTOR, CHIP		
R202	1-216-295-91	CONDUCTOR, CHIP		
R204	1-216-037-00	METAL GLAZE 330	5%	1/10W
R205	1-216-295-91	CONDUCTOR, CHIP		
		<SWITCH>		
SW1	1-570-598-11	SWITCH, DIP		
SW2	1-570-204-21	SWITCH, KEY BOARD		
		<CRYSTAL>		
X1	1-578-687-11	VIBRATOR, CRYSTAL		
X2	1-577-116-21	VIBRATOR, CRYSTAL		
X3	1-567-192-11	OSCILLATOR, CERAMIC		
X4	1-577-353-11	VIBRATOR, CERAMIC		